# Site Assessment Report , Proposed Remediation Workplan & Partial Deferral Request

## Permian Resources Airstream 603-605

Lea County, New Mexico Unit Letter O, Section 13, Township 22 South, Range 34 East

NMOCD Reference No. nAPP2320839776 Latitude 32.38641 North, Longitude 103.42056 West

NMOCD Reference No. nAPP2329127081 Latitude 32.38640 North, Longitude 103.420455 West

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### **1.0 PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Permian Resources (Permian), has prepared this *Site Assessment Report, Proposed Remediation Workplan & Partial Deferral Request* for the release sites known as the Airstream 603-605 (henceforth referred to collectively as, "Site"). The legal description of the Site is Unit Letter "O", Section 13, Township 22 South, Range 34 East, in Lea County, New Mexico. The property affected by the release is owned by the State of New Mexico and is administered by the New Mexico State Land Office (NMSLO). A "Site Location Map" is provided as Figure 1.

On July 17, 2023, Permian discovered a release at the Airstream Central Tank Battery. The initial Release Notification and Corrective Action (NMOCD Form C-141) indicated that corrosion resulted in the release of approximately seventy-eight (78) barrels (bbls) of crude oil. During initial response activities, the release site was secured and a vacuum truck was utilized to recover approximately seventy (70) bbls of free-standing liquids.

On October 16, 2023, while remediating the first release, a second release occurred at the tank battery. The initial NMOCD Form C-141 indicated that the failure of a sight glass on a separator resulted in the release of approximately twenty-one (21) bbls of crude oil and five (5) bbls of produced water. During initial response activities, the release site was secured and a vacuum truck was utilized to recover approximately eighteen (18) bbls of crude oil and four (4) bbls of produced water. The releases affected similar areas and will be remediated concurrently.

### 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. In addition, on July 12, 2024, a temporary depth to groundwater determination bore was installed at the Site. The temporary depth to groundwater determination bore (CP-02005) was drilled to a total depth of sixty-five (65) ft. below ground surface (bgs) and left open for a minimum seventy-two (72) hours. On July 16, 2024, the temporary depth to groundwater determination bore was gauged and the static water level was determined to be sixty (60) ft. bgs. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	60	Feet
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X 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	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X 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	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1, 2, 5 and 6.

### 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	-	100
60 Feet	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

<sup>†</sup> Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1)

### 4.0 SUMMARY OF FIELD ACTIVITIES

Upon discovering the release remediation activities commenced at the Site. Impacted material in the lined process area was removed to the maximum extent practicable given the congested nature of the facility and proximity to active process equipment. The floor of the excavation was advanced to the underlying polyurethane liner, or a depth of approximately one (1) to one and one-half (1.5) ft. bgs. The sidewalls of the excavated area were advanced to the maximum extent practicable while ensuring the continued stability of the facility's above-ground process equipment. During the course of excavation activities, great care was taken to maintain the integrity of the underlying polyurethane liner although it was already compromised in the southwestern portion of the Site where impacts were excavated to an approximate depth of five (5) ft. bgs. Impacted material was temporarily stockpiled on-site, atop an impermeable liner pending transportation to an NMOCD-approved surface waste facility.

On October 16, 2023, a second release occurred at the facility. The release affected portions of the existing excavation along with an area on the north side of the facility.

On January 9, 2024, Etech assumed remediation responsibilities at the Site. Heavily impacted material on the north side of the tank battery facility was scraped and temporarily stockpiled on-site, atop an impermeable liner pending transportation to an NMOCD-approved surface waste facility. Affected portions of the polyurethane liner were cleaned to the extent practicable and impacted material beneath and adjacent to the on-site process equipment was excavated by hand in an effort to remove additional contamination while preserving the continued stability of the facility's above-ground process equipment. To date, approximately 320 cubic yards of impacted material have been excavated and transported to an NMOCD-permitted surface waste facility for disposal.

On January 22, 2024, Etech conducted an assessment at the Site. During the assessment, twelve (12) soil samples (SP 1 @ 1', SP 2 @ 6', SP 3 @ 1', SP 4 @ 1', EH-1 @ 1', EH-2 @ 1', NH-1 @ 1', NH-2 @ 1', SH-1 @ 1', SH-2 @ 1', WH-1 @ 1' and WH-2 @ 1') were collected in an effort to further investigate the vertical and horizontal extent of soil impacts at the Site. The collected soil samples were submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample SP 2 @ 6', which exhibited a concentration of 134 mg/kg. TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample SP 2 @ 6', which exhibited soil samples with the exception of soil sample SP 2 @ 6', which exhibited soil samples with the exception of soil samples SP 1 @ 1', SP 2 @ 6', SP 3 @ 1' and SP 4 @ 1' which exhibited concentrations of 18,300 mg/kg, 5,550 mg/kg, 15,400 mg/kg and 9,990 mg/kg, respectively. A "Site and Sample Location Map" is provided as Figure 3.

On January 31, 2024, Etech revisited the Site. During the site visit, fourteen (14) soil samples (SP-1 @ 2'-R, SP-2 @ 3'-R, SP-3 @ 2'-R, SP-4 @ 10'-R, EH-1 @ Surf., EH2b @ Surf., EH-2b @ 1', NH - 1 @ Surf, NH - 2 @ Surf, SH - 2b @ 1', WH - 1 @ Surf and WH - 2 @ Surf.) were collected in an effort to further investigate the vertical and horizontal extent of soil impacts at the Site. The collected soil samples were submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample SP-4 @10'-R, which exhibited a concentration of 17.1 mg/kg. Analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples SP-2 @ 3'-R, SP-3 @ 2'-R and SP-4 @ 10'-R, which exhibited concentrations of 110 mg/kg, 261 mg/kg and 632 mg/kg, respectively. TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples soil samples with the exception of 4,000 mg/kg, 7,460 mg/kg and 10,100 mg/kg, respectively. Chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples soil samples with the exception of the submitted soil samples SP-2 @ 3'-R, SP-3 @ 2'-R and SP-4 @ 10'-R, which exhibited concentrations of 110 mg/kg, 261 mg/kg and 632 mg/kg, respectively. TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples SP-2 @ 3'-R, SP-3 @ 2'-R and SP-4 @ 10'-R, which exhibited concentrations of 110 mg/kg, 261 mg/kg and 632 mg/kg, 7,460 mg/kg and 10,100 mg/kg, respectively. Chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

In addition, Etech utilized a hand-auger to collect sixteen (16) deferral characterization soil samples (DEF - 1 @ 6", DEF -1 @ 6' R, DEF - 2 @ 6", DEF - 2 @ 2', DEF - 3 @ 6", DEF - 3 @ 3'-R, DEF - 4 @ 6", DEF - 4 @ 4'-R, DEF - 5 @ 6", DEF - 5 @ 8'-R, DEF - 6 @ 6", DEF - 6 @ 5'-R, DEF - 7 @ 6", DEF - 7 @ 1.5', DEF - 8 @ 6", DEF - 8 @ 1') in an effort to characterize impacts proximate to the lined containment areas and active above ground equipment. The collected soil samples were submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples DEF-1 @ 6", DEF-1 @ 6"-R, DEF-3 @ 2'-R, DEF-5 @ 8'-R and DEF-6 @ 6", which exhibited concentrations of 56.0 mg/kg, 240 mg/kg, 180 mg/kg, 483 mg/kg and 102 mg/kg, respectively. TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples DEF - 1 @ 6", DEF - 1 @ 6'-R, DEF - 2 @ 6", DEF - 2 @ 2', DEF - 3 @ 6", DEF - 3 @ 3' R, DEF - 4 @ 6", DEF - 5 @ 6", DEF - 5 @ 8'-R and DEF - 6 @ 6", which exhibited concentrations of 12,200 mg/kg, 8,180 mg/kg, 4,250 mg/kg, 4,970 mg/kg, 23,100 mg/kg, 7,920 mg/kg, 33,400 mg/kg, 27,600 mg/kg, 7,650 mg/kg and 43,200 mg/kg, respectively. Soil sample DEF-4 @ 4'-R exhibited a combined GRO & DRO of 1,780 mg/kg, which exceeded the NMOCD Closure Criteria. Chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Further advancement of the hand-augered soil bores was precluded due to site conditions and limitations of the hand-auger. Based on laboratory analytical results from deferral characterization soil samples, additional investigation was warranted in the areas characterized by sample points DEF-1 though DEF-5. Full delineation was achieved in the area characterized by DEF-6 and soil was not impacted above the NMOCD Closure Criteria in the areas characterized by sample points DEF-7 and DEF-8.

On March 13, 2024, Etech revisited the Site in an effort to further characterize impacts in the areas characterized by sample points SP-1, DEF-1, DEF-3, DEF-4, DEF-5 and DEF-8. During the site visit, a mini-excavator was utilized to advance a series of delineation trenches. During the advancement of the delineation trenches, six (6) soil samples (SP 1 @ 3'. DEF 1 @ 12', DEF 3 @ 12', DEF 4 @ 5', DEF 5 @ 9', and DEF 8 @ 2') were collected and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples DEF 1 @ 12' and DEF 3 @ 12', which exhibited concentrations of 206 mg/kg and 200 mg/kg, respectively. TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples DEF 1 @ 12' and DEF 3 @ 12', which exhibited concentrations of 10,600 mg/kg and 10,700 mg/kg, respectively. Based on laboratory analytical results from the collected soil samples, additional investigation was warranted in the area characterized by sample points DEF 1 and DEF 3.

On July 16, 2024, an air rotary environmental drilling rig was utilized to advance an investigative boring (BH) proximate to sample points DEF-1 and SP-2. During the advancement of the investigative soil boring, three (3) soil samples (BH @ 20', BH @ 24' and BH @ 28') were collected and submitted to the laboratory for analysis of benzene, BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene, BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

### 5.0 PROPOSE REMEDIATION PLAN

Based on laboratory analytical results, site conditions and field observations made during the soil assessment, Etech, on behalf of Permian Resources, proposes the following remediation activities to bring the Site into compliance:

- Utilizing mechanical equipment, excavate impacted material affected above the NMOCD Closure Criteria on the north side of the facility in the areas characterized by sample points SP-1, SP-2, SP-3 and SP-4. The floor and sidewalls of the excavated area will be advanced until laboratory analytical results from excavation confirmation soil samples indicate concentrations of benzene, BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. The sidewalls of the excavated area will be advanced towards the south to the maximum extent practicable while ensuring the integrity of the active tank battery facility and associated above ground storage tanks. A "Proposed Excavation and Deferral Map" is provided as Figure 4.
- Utilizing mechanical equipment, excavate impacted material affected above the NMOCD Closure Criteria in the southwestern portion of the release site in the area characterized point DEF-6. The floor and sidewalls of the excavated area will be advanced until laboratory analytical results from excavation confirmation soil samples indicate concentrations of benzene, BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard. The sidewalls of the excavated area will be advanced towards the north and east to the maximum extent practicable while ensuring the integrity of the active tank battery facility.
- Excavated material will be temporarily stockpiled on-site atop an impermeable liner then transported to an NMOCD-permitted surface waste facility for disposal.
- Upon excavating impacted material affected above the NMOCD Closure Criteria, collect the necessary excavation confirmation soil samples on approximate 200 sq. ft. increments.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted like material. Excavation backfill will be contoured and compacted to achieve erosion control, stability and the preservation of surface water flow to the extent practicable.
- Remediation activities are not expected to be limited to the active production facility therefore reclamation and reseeding will be conducted at a later date in accordance with the NMSLO.

### 6.0 DEFERRAL REQUEST

The proposed remediation activities will be conducted in accordance with applicable NMOCD and NMSLO regulatory guidelines. Impacted material affected above the NMOCD Closure Criteria will be excavated to the maximum extent practicable given the proximity to active tank battery equipment including, but not limited to, the heater treater, horizontal separators, tank battery containment and associated above ground equipment. Impacted material remaining in-situ adjacent to and beneath the heater treater, horizontal separators, tank battery containment and associated above ground equipment to and beneath the heater treater, horizontal separators, tank battery containment and associated above ground equipment to and beneath the heater treater, horizontal separators, tank battery containment and associated above ground equipment poses a safety risk and will results in a major facility deconstruction.

Final reclamation will be conducted in accordance with applicable NMOCD and NMSLO regulatory guidelines upon abandoning and decommissioning the facility.

### 7.0 LIMITITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Assessment Report, Proposed Remediation Workplan & Partial Deferral Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Permian Resources. Use of the information contained in this report is prohibited without the consent of Etech and/or Permian Resources.

## 8.0 **DISTRIBUTION**

### **Permian Resources**

300 N. Marienfeld St. Suite 100 Midland, TX 79701

### New Mexico Energy, Mineral and Natural Resources Department

Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

### New Mexico State Land Office

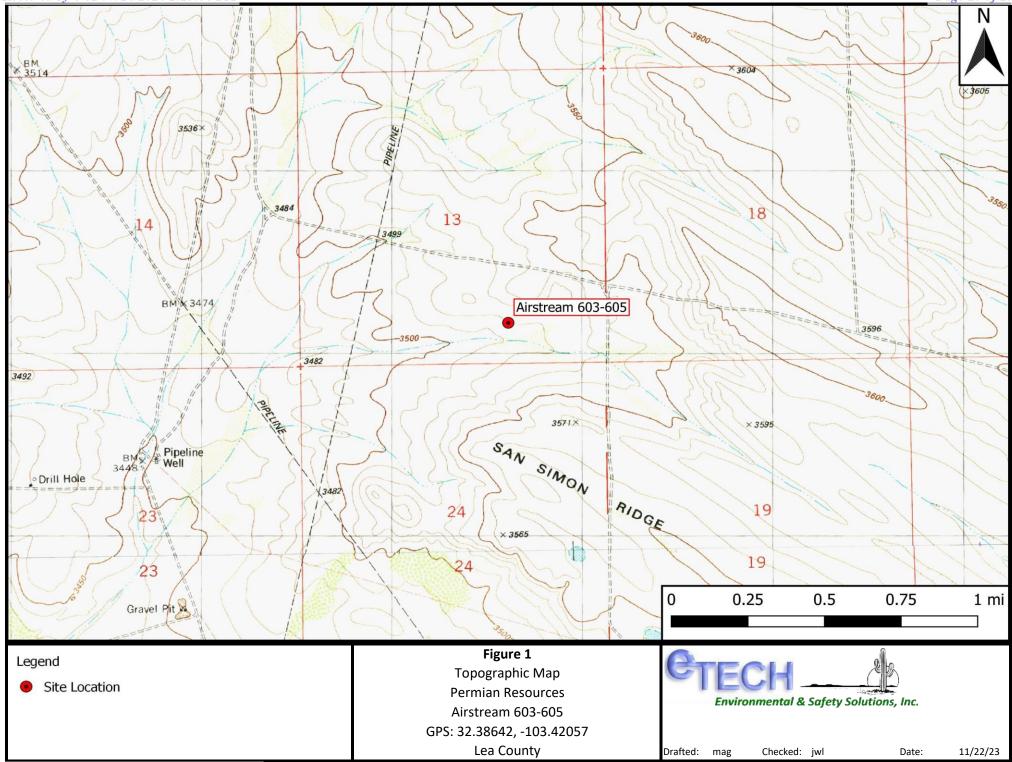
Environmental Compliance Office 2827 North Dal Paso St. Suite 117 Hobbs, NM 88240

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# **Figure 1** Site Location Map

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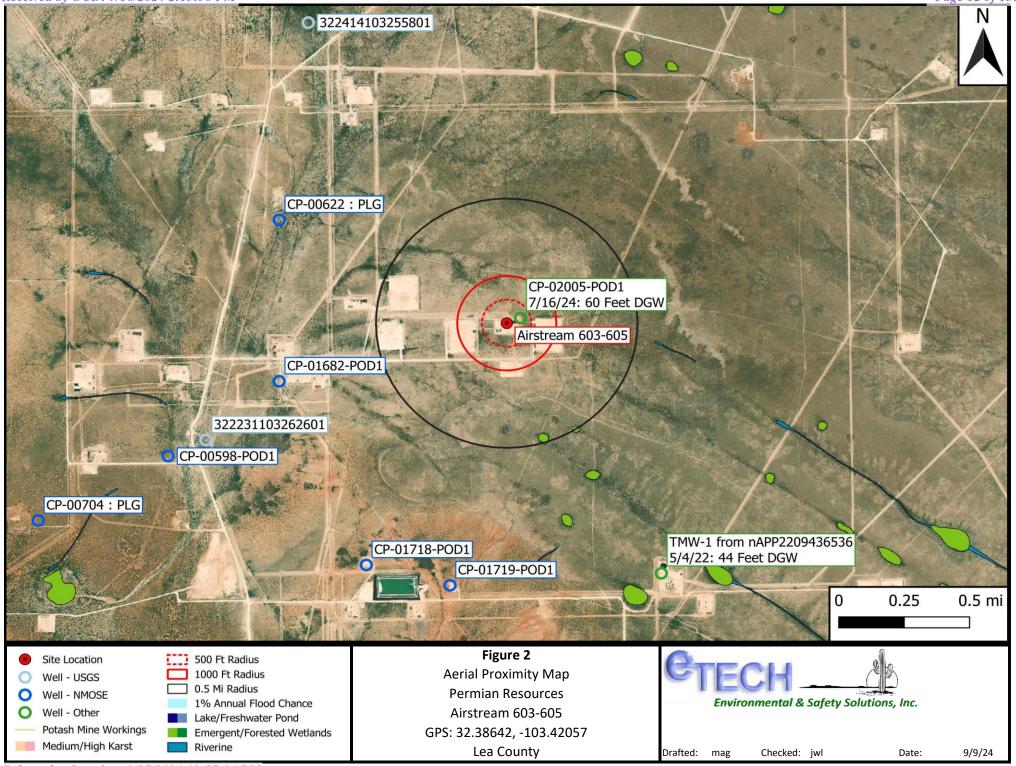
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# **Figure 2** Aerial Proximity Map

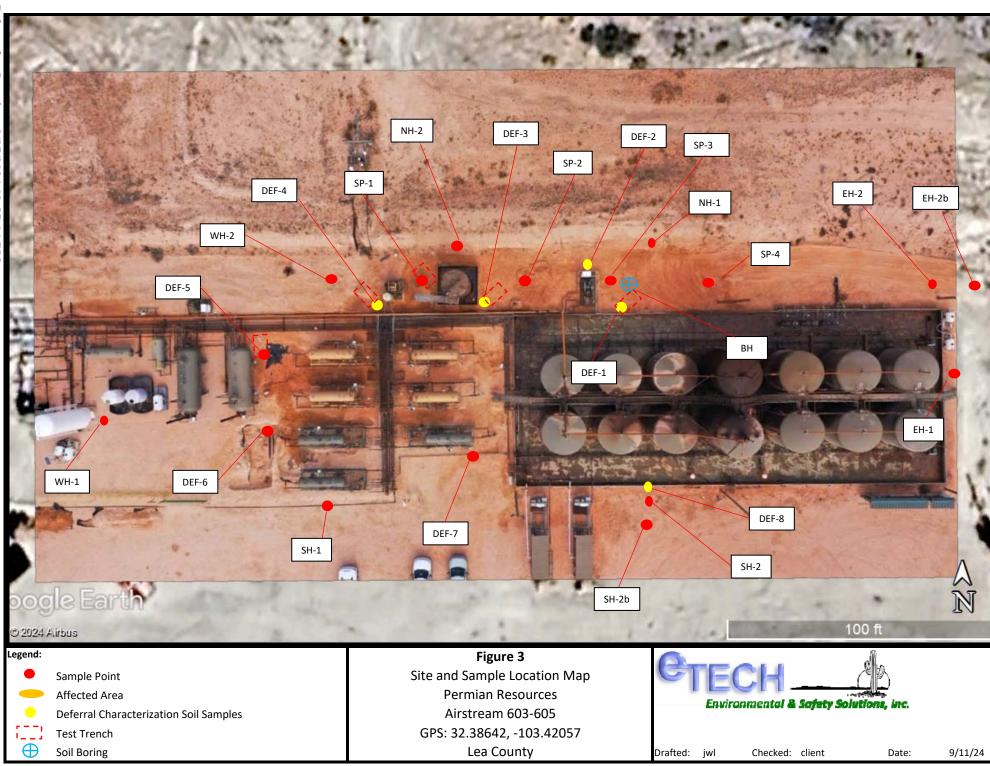
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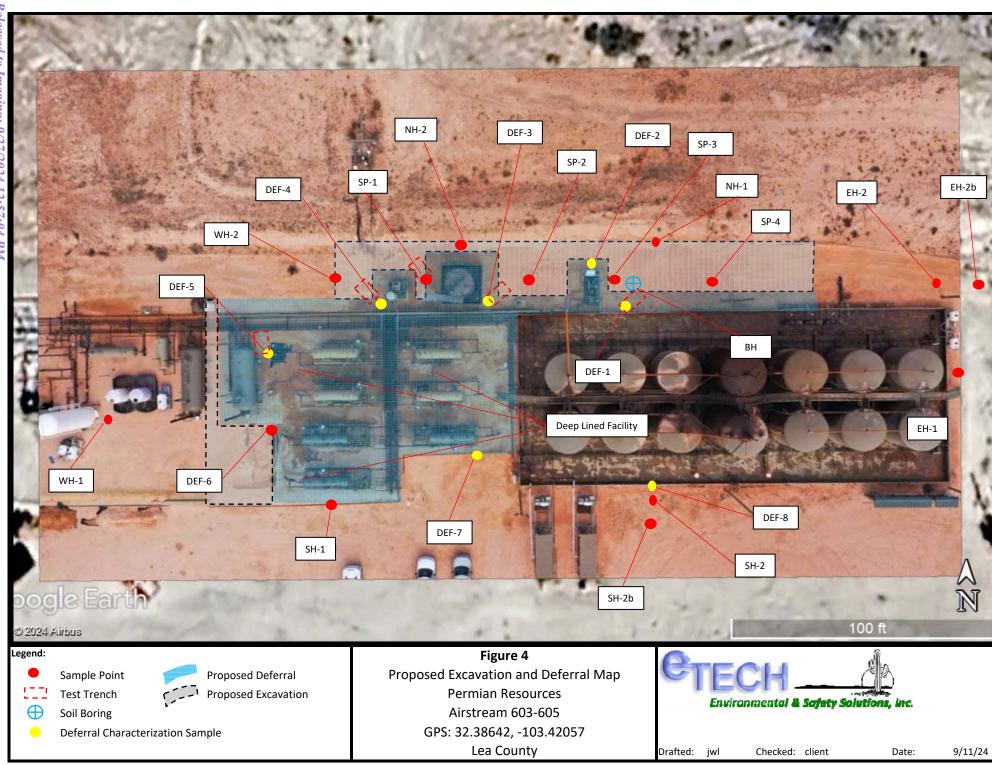
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# **Figure 3** Site and Sample Location Map



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Figure 4 Proposed Excavation and Deferral Map



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Table 1Concentrations of BTEX, TPH and Chloride in Soil

	Table 1												
			Concen		· · · · · ·	·	Chloride i	in Soil					
					Permian F								
	Airstream 603-605 NMOCD Ref. #: nAPP2320839776												
NMOCD Ref. #: nAPP2320839776           NMOCD Closure Criteria         10         50         -         1,000         -         2,500         10,000													
NMOCD Closure Criteria         10         50         -         -         1,000         -         2,500         1           NMOCD Reclamation Standard         10         50         -         -         -         100         -         2,500         10													
				-	5 8021B		SW	846 8015M	Ext.	100	600 4500 Cl		
		Depth	Soil			GRO	DRO	GRO +	ORO	ТРН			
Sample ID	Date	(Feet)	Status	Benzene	BTEX	C <sub>6</sub> -C <sub>10</sub>	C <sub>10</sub> -C <sub>28</sub>	DRO	C <sub>28</sub> -C <sub>36</sub>	C <sub>6</sub> -C <sub>36</sub>	Chloride		
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C <sub>6</sub> -C <sub>28</sub> (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
SP 1 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<100	13,600	13,600	4,690	18,300	192		
SP - 1 @ 2'-R	1/31/2024	2	In-Situ	< 0.050	0.482	<10.0	327	327	111	438	64.0		
SP 1 @ 3'	3/13/2024	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0		
SP - 2 @ 3'-R	1/31/2024	3	In-Situ	2.21	110	592	2,850	3,440	562	4,000	960		
SP 2 @ 6'	1/22/2024	6	In-Situ	1.72	134	1,400	3,620	5,020	529	5,550	752		
SP 3 @ 1'	1/22/2024	1	In-Situ	< 0.500	36.4	745	12,400	13,100	2,210	15,400	224		
SP - 3 @ 2'-R	1/31/2024	2	In-Situ	1.46	261	1,710	4,870	6,580	882	7,460	16.0		
SP 4 @ 1'	1/22/2024	1	In-Situ	0.0560	13.4	408	8,100	8,510	1,480	9,990	208		
SP - 4 @ 10'-R		10	In-Situ	17.1	632	3,120	5,920	9,040	1,070	10,100	32.0		
DEF - 1 @ 6"	1/31/2024	0.5	In-Situ	0.668	56.0	620	9,770	10,400	1,810	12,200	464		
DEF - 1 @ 6'-R	1/31/2024	6	In-Situ	1.60	240	1,980	5,360	7,340	836	8,180	1,120		
DEF 1 @ 12'	3/13/2024	12	In-Situ	2.22	206	2,540	7,230	9,770	858	10,600	80.0		
DEF - 2 @ 6"	1/31/2024	0.5	In-Situ	0.315	32.3	408	3,260	3,670	582	4,250	80.0		
DEF - 2 @ 2'	1/31/2024	2	In-Situ	0.286	35.6	314	3,910	4,220	745	4,970	368		
DEF - 3 @ 6"	1/31/2024	0.5	In-Situ	0.269	16.8	384	18,400	18,800	4,310	23,100	1,150		
DEF - 3 @ 3'-R		3	In-Situ	<2.00	180	2,000	5,140	7,140	783	7,920	64.0		
DEF 3 @ 12'	3/13/2024	12	In-Situ	3.17	200	2,590	7,160	9,750	914	10,700	128		
DEF - 4 @ 6"	1/31/2024	0.5	In-Situ	0.171	10.4	488	27,700	28,200	5,210	33,400	112		
DEF - 4 @ 4'-R		4	In-Situ	<0.050	5.55	126	1,650	1,780	317	2,090	48.0		
DEF 4 @ 5'	3/13/2024	5	In-Situ In-Situ	<0.050 <0.050	< 0.300	<10.0 <50.0	<10.0	<20.0	<10.0	<30.0	144		
DEF - 5 @ 6" DEF - 5 @ 8'-R	1/31/2024 1/31/2024	0.5	In-Situ In-Situ	<0.030 5.70	2.76 <b>483</b>	2,110	21,700 4,820	21,700 6,930	5,880 716	27,600 7,650	160 112		
DEF 5 @ 9'	3/13/2024	<u> </u>	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0		
	1/31/2024		In-Situ In-Situ		<0.300 <b>102</b>	1,500	35,500	<20.0 37,000	6,220	43,200	912		
DEF - 6 @ 5'-R		5	In-Situ		< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0		
DEF - 7 @ 6"	1/31/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	10.9	10.9	<10.0	10.9	1,280		
DEF - 7 @ 1.5'		1.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,200		
DEF - 8 @ 6"	1/31/2024	0.5	In-Situ	< 0.050	< 0.300	<10.0	401	401	222	623	224		
DEF - 8 @ 1'	1/31/2024	1	In-Situ	< 0.050	< 0.300	<10.0	182	182	37.8	220	208		
DEF 8 @ 2'	3/13/2024	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0		
EH - 1 @ Surf		0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		
EH - 1 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0		
EH - 2 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<10.0	64.3	64.3	37.1	101	32.0		
EH - 2b @ Surf		0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		
EH - 2b @ 1'	1/31/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0		
NH - 1 @ Surf		0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0		
NH - 1 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0		
NH - 2 @ Surf		0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0		
NH - 2 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<10.0	70.7	70.7	21.8	92.5	144		
SH - 1 @ Surf	1/31/2024	0	In-Situ	< 0.050	< 0.300	<10.0	42.1	42.1	<10.0	42.1	48.0		
SH - 1 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<10.0	18.2	18.2	<10.0	18.2	368		

Dash (-): Sample not analyzed for that constituent. Bold: NMOCD Closure Criteria exceedance. Red: NMOCD Reclamation Standard exceedance.

•

			Concer	trations o	Tabl f BTEX. 1		Chloride i	in Soil				
Concentrations of BTEX, TPH, and Chloride in Soil Permian Resources												
Airstream 603-605												
	NMOCD Ref. #: nAPP2320839776											
NMOCD Closure Criteria         10         50         -         -         1,000         -         2,500         10,100												
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600	
		SW 846	5 8021B		SW	846 8015M	Ext.		4500 Cl			
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)	
SH - 2 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<10.0	177	177	77.2	254	128	
SH - 2b @ Surf	1/31/2024	0	In-Situ	< 0.050	< 0.300	<10.0	19.2	19.2	<10.0	19.2	32.0	
SH - 2b @ 1'	1/31/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
WH - 1 @ Surf	1/31/2024	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144	
WH - 1 @ 1'	1/22/2024	1	In-Situ	< 0.050	1.06	<10.0	<10.0	<20.0	<10.0	<30.0	224	
WH - 2 @ Surf	1/31/2024	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
WH - 2 @ 1'	1/22/2024	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
BH @ 20'	7/16/2024	20	In-Situ	< 0.050	< 0.300	<10.0	95.1	95.1	23.0	118	16.0	
BH @ 24'	7/16/2024	24	In-Situ	< 0.050	< 0.300	<10.0	61.0	61.0	12.9	73.9	32.0	
BH @ 28'	7/16/2024	28	In-Situ	< 0.050	< 0.300	<10.0	64.8	64.8	13.6	78.4	32.0	

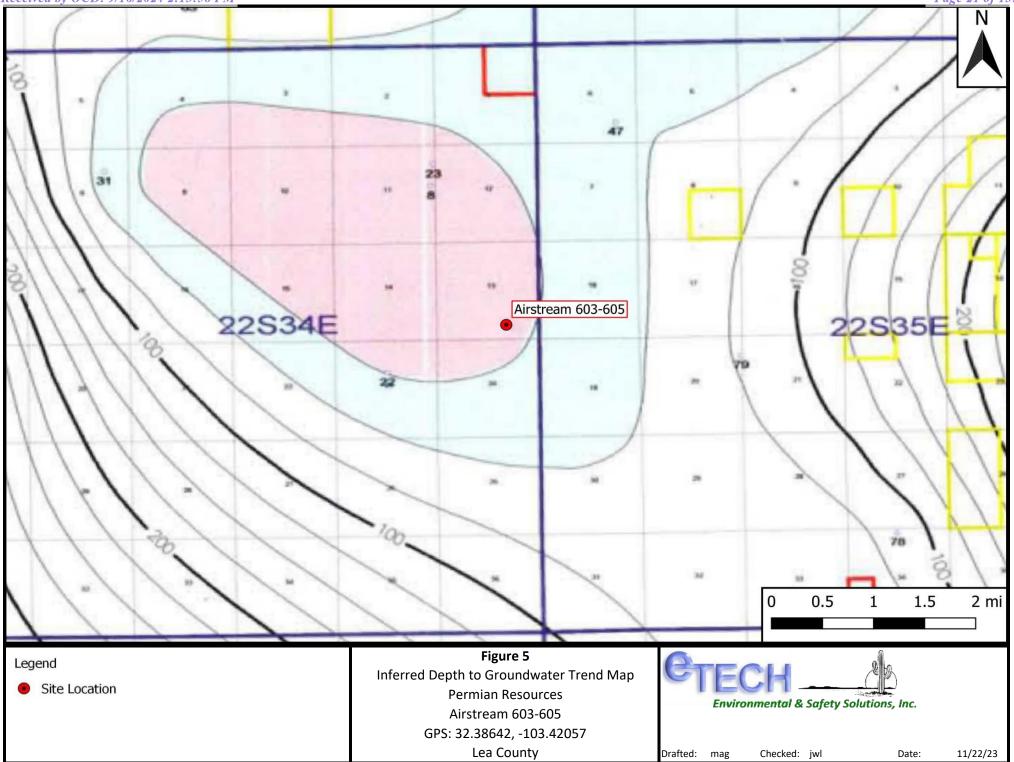
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# **Appendix A** Depth to Groundwater Information

Received by OCD: 9/16/2024 2:13:58 PM

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# WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	ose pod no Pod-1	WELL NO	).)		WELL TAG ID NO			OSE FILE NO( CP-02005	S).			
OCATI	WELL OWNE Permian Re		)					PHONE (OPTI) 575-605-347				
WELL I	WELL OWNE PO 3641	ER MAILING	G ADDRESS					city Hobbs		state NM	88241	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION	LA	TITUDE	GREES 32	MINUTES 23		.15 <sub>N</sub>		REQUIRED: ONE TEN	TH OF A SP	ECOND	
CNER	(FROM GP	LOI	NGITUDE	-103	25		.77 W					
1. GF			NG WELL LOCATION TO R-34E Lea County N		RESS AND COMMO	N LANDN	ARKS – PLS	SS (SECTION, TO	WNSHЛP, RANGE) WH	ERE AVAI	LABLE	
	LICENSE NO WD-1		NAME OF LICENSED	DRILLER	James Hawley				NAME OF WELL DRI H&R	LLING CO Enterpris		
	DRILLING ST 7/12/		DRILLING ENDED 7/12/24	DEPTH OF CO	OMPLETED WELL (F 65	T)	BORE HO	LE DEPTH (FT) 65	DEPTH WATER FIRS	ST ENCOU	NTERED (FT)	
N	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info be	DRY HO	LE 🗸 SHALLO	W (UNC	ONFINED)		WATER LEVEL PLETED WELL 6		ATE STATIC 1 7/16/	
ATIC	DRILLING FL	JUID:	✓ AIR	MUD	ADDITIV	/ES – SPI	ECIFY:					
ORM	DRILLING M	ETHOD: 🗸	ROTARY HAMM	MER 🗌 CAB	LE TOOL 🗌 OTH	IER – SPE	CIFY:		CHECK INSTAL	HERE IF P LED	ITLESS ADAF	PTER IS
INFO	DEPTH (		BORE HOLE	CASING	MATERIAL ANI GRADE	D/OR	CA	ASING	CASING	CASIN	G WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM	ТО	DIAM (inches)		each casing string		1	NECTION TYPE ling diameter)	INSIDE DIAM. (inches)		CKNESS aches)	SIZE (inches)
& C	0	55	6		SCH 40 FJ Blank			read 2.38"	2.0		0.19	
CLING	55	65	6	2" S	CH 40 FJ 0.10 per	f	FJ Th	read 2.38"	2.0		).19	0.10
2. DRI												
	DEPTH (	(feet bgl)	BORE HOLE	LIST ANNU	JLAR SEAL MATE RANGE B			L PACK SIZE-	AMOUNT		METHO	
ANNULAR MATERIAL	FROM	ТО	DIAM. (inches)	*(if using Ce	ntralizers for Artes			e spacing below)	(cubic feet)		PLACEN	1ENT
MATH												
ULAR												
3. ANNI												
	OSE INTER	NAL USE							0 WELL RECORD a	& LOG (\	/ersion 09/22	2/2022)
FILE	ATION				POD NO	).	T	TRN N		·····	PAGE	1 OF 2
LUC								WELL TAG II	JINU.		TAUL	1012

•

							and the second second			
-	DEPTH (: FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WATEF	D TYPE OF MATERIAL EN R-BEARING CAVITIES OR Ilemental sheets to fully de	R FRACTUF	RE ZONES	BEAI	TER RING? / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
ŀ	0	10	10		white caliche			Y	√ N	
ł	10	20	10		light tan sandy caliche			Y	√ N	
ŀ	20	63	43		light red alluvial sands			✓ Y	N	
ŀ	63	65	2		Red Bed			Y	√ N	
								Y	N	
								Y	N	
4. HYDROGEOLOGIC LOG OF WELL								Y	N	
FW								Y	N	
0.9								Y	N	
CLO								Y	N	
OGIC								Y	N	
OLG								Y	N	
OGE								Y	N	
DR							e with the second s	Y	N	
4. H)								Y	N	
,								Y	N	
								Y	N	
								Y	N	
						w		Y	N	
								Y	N N	
	METHOD	USED TO E	ESTIMATE YIELI	O OF WATER-BEARING				OTAL EST		N/A
	PUM	IP 🔲	AIR LIFT	BAILER OT	HER – SPECIFY:					
NO	WELL TES	ST TEST	T RESULTS - ATT RT TIME, END T	TACH A COPY OF DAT IME, AND A TABLE SH	A COLLECTED DURING IOWING DISCHARGE AN	WELL TES D DRAWD	TING, INCLU OWN OVER	DING DIS THE TEST	CHARGE	METHOD, OD.
	MISCELLA	NEOUS IN	NFORMATION:	(7, 11,, in, 11,,	e Permian Resources Airs	stream CTI	a to determin	e denth of	groundw	ater, casing was
TEST; RIG SUPERVIS			le	eft in the hole until 7/1	6/24, gauged, pulled, and	well bore	was plugged.		8	
LEST	PRINT NA	ME(S) OF	DRILL RIG SUPE	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION OF W	ELL CONSTI	RUCTION	OTHER T	HAN LICENSEE:
5.1	Nathan Sm									
SIGNATURE	CORRECT	RECORD	OF THE ABOVE	DESCRIBED HOLE AN	EST OF HIS OR HER KNO ID THAT HE OR SHE WIL PLETION OF WELL DRIL	L FILE IH	AND BELIEF IS WELL REC	, THE FOR CORD WIT	REGOING H THE ST	IS A TRUE AND ATE ENGINEER
GNA	1h	lh	$\Lambda$ /	Ja	ames Hawley			7	/19/24	
() (	A	SIGNA	TURE OF DRILL	ER / PRINT SIGNEE					DATE	
						u	VR-20 WELL	RECORD	& LOG (V	ersion 09/22/2022)
	R OSE INTE LE NO.	KNAL USE	5		POD NO.		RN NO.	ALCOND (		
	CATION					WELL TA	AG ID NO.			PAGE 2 OF 2



Site: J NMOC Locati	Jalape D Re ion: L	eno RP ⊧ <b>ference                                  </b>	Midstream Permian, LLCWell/Borehole ID: TMW-1Coordinates (NAD 83): 32.371791,-103.410713#: nAPP2132245281VM19, T22S, R35EDepth of Boring (ft): 80Depth to Groundwater (ft): 44Plugging Date: 6/1/2022	Driller: Drilling Loggeo Drafted	L. Scarb Method	: Air Rota Scarborou Arguijo	ary	Drilling,	Inc.
Compl	letion	n: N/A	Casing: 2" PVC	Screen	: 0.1" Slo	otted			
Comm	nents	: Tempora	ary monitor well advanced in northwest corner of production pad.						
Depth (ft)	Groundwater	Lithology	Material Description		Chloride Field Test	Petroleum Odor	Petroleum Stain		Well Construction
_		0°. B	Caliche pad Caliche fines	/	-	-	-		
- 5		• • • •	Sand						
- 10					-	-	-		
					-	-	-		
- 15 -					_		_		
20									
- 25					-	-	-		
 					-	-	-		
- 30									
- 35		· · · ·			-	-	-		
_					-	-	-		- Open Hole -
40 					_		_		ben F
- 45	₽								⊻°
- - - 50		••••			-	-	-		
_ 50 _					-	-	-		
- 55									
- 60					-	-	-		
-		••••			-	-	-		
- 65		· . · · . ·							
- 70					-	-	-		
_ _ 					-	-	-		
- 75 -		· · · ·			-	-	-		
<del>80</del>		· · · ·	Notes:						
- 85			• Lines between material types represent approximate boundaries. Actual transi may be gradual.	tions					
_			,						
90 									
95									
_									

Disclaimer This bore log is intended for environmental not geotechnical purposes.



# New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarte	ers are	1=NV	W 2=N	IE 3=SW	4=SE)			
			(quar	ters are	e sma	llest to	o largest)		(NAD83 U	TM in meters)	
Well Tag	POE	) Number	Q64	Q16	Q4	Sec	Tws	Rng	Х	Y	
2062A	CP (	01682 POD1	1	2	2	23	22S	34E	647164	3583992 🌍	
Driller Lic	ense:	421	Driller	Com	pan	y:	GLI	ENN'S	WATER WI	ELL SERVICE	
Driller Na	me:	CORKY GLENN									
Drill Start	Date:	09/10/2019	Drill F	inish	Dat	e:	09	0/13/20	19 <b>Pl</b>	ug Date:	
Log File D	g File Date: 09/19/2019 mp Type:			Rcv D	ate	:			So	ource:	Shallow
Pump Typ	e:	Pipe Discharge Size:						Es	15 GPM		
Casing Siz	asing Size: 8.13			Depth Well:				294 feetDepth Was			42 feet
X	Wate	er Bearing Stratifica	ations:		То	p l	Bottom	Desc	ription		
					4	2	56	Sand	lstone/Grave	l/Conglomerate	
					$\epsilon$	58	92	Sand	lstone/Grave	l/Conglomerate	
					24	12	274	Shale	e/Mudstone/	Siltstone	
X		Casing Perfor	ations:		То	p l	Bottom				
						0	294				

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

11/22/23 10:22 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters are 1=N (quarters are sma		,	(NAD83 U		
Well Tag	POD Number	Q64 Q16 Q4	Sec Tws	Rng	Х	Y	
	CP 00622	3 4 2	14 22S	34E	647164	3585030* 🌍	
Driller Lice	<b>nse:</b> 46	Driller Compar	ıy: AB	BOTT BR	OTHERS	COMPANY	
Driller Nam	e: MURRELL ABB	OTT					
Drill Start I	Date: 06/03/1980	Drill Finish Dat	t <b>e:</b> 0	6/06/1980	Plu	ıg Date:	06/06/1980
Log File Da	te:	PCW Rcv Date	:		So	urce:	
Pump Type:	:	Pipe Discharge	Size:		Es	timated Yield:	
Casing Size		Depth Well:			Do	pth Water:	

\*UTM location was derived from PLSS - see Help

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

11/22/23 10:22 AM

POINT OF DIVERSION SUMMARY

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#### Page 27 of 135

Revised June 1972

#### STATE ENGINEER OFFICE WELL RECORD

Section 1. GENERAL INFORMATION (A) Owner of well <u>Pogo Producing Co.</u>
 Street or Post Office Address <u>P.O. Box 10340</u>
 City and State <u>Midland, Texas 79701</u> \_\_\_\_\_ Owner's Well No. BKD Comm. # 1 Well was drilled under Permit No. <u>CP-622</u> \_\_\_\_\_ and is located in the: <u>14</u> SW 14 SE 14 NE 14 of Section 14 Township 22S Range 34E N.M.P.M. \_\_\_\_\_ of Map No. \_\_\_\_\_\_ of the \_\_\_\_ b. Tract No.\_\_\_ c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ Subdivision, recorded in \_\_\_\_\_ Lea \_\_\_\_ of the\_ \_\_\_\_ County. \_\_\_\_\_ feet, N.M. Coordinate System\_\_\_ d. X= \_\_\_\_ \_\_\_\_\_ feet, Y=\_ \_\_\_\_ Zone in ... Grant. the\_ (B) Drilling Contractor Abbott Bros. License No. WD-46 Address P.O. Box 637, Hobbs, New Mexico 88240 Drilling Began \_\_\_\_\_6/3/80 Completed \_\_\_\_\_6/6/80 Type tools \_\_\_\_\_Cable \_\_\_\_Size of hole \_\_\_\_\_8 in. \_\_\_\_\_ at well is \_\_\_\_\_\_ ft. Total depth of well Dry Hole ft. Elevation of land surface or \_\_\_\_\_ Completed well is  $\mathbf{X}$  shallow  $\square$  artesian. Depth to water upon completion of well \_\_\_\_ \_\_\_\_ ft. Section 2. PRINCIPAL WATER-BEARING STRATA Depth in Feet Estimated Yield Thickness Description of Water-Bearing Formation in Feet (gallons per minute) From To DRY HOLE Section 3. RECORD OF CASING Depth in Feet Perforations Pounds Threads Length Diameter Type of Shoe per foot per in. (feet) (inches) Top Bottom From To NO CASING DRY HOLE Section 4. RECORD OF MUDDING AND CEMENTING Depth in Feet Sacks Cubic Feet Hole Method of Placement Diameter of Mud of Cement From То Section 5. PLUGGING RECORD Plugging Contractor Abbott Bros. Address P.O. Box 637, Hobbs, New Mexico 8 Plugging Method Ruble filled & cement at top Date Well Plugged 6/6/80 88240 Depth in Feet Cubic Feet No. of Cement Тор Bottom 1 Plugging approved by: 2 3 State Engineer Representative 4

#### FOR USE OF STATE ENGINEER ONLY

Date Received June 12, 1980

Quad \_\_\_\_\_

\_\_\_\_ FWL \_\_\_\_\_

FSL\_\_\_

File No. <u>CP-622</u>

\_\_\_ Use \_\_\_ OW

OWD Location No. 22.34.14.24322

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Depth i	in Feet	Thickness		
From	То	in Feet	Color and Type of Material Encountered	
0	3	3	Topsoil	
3	28	25	Caliche	<u>.                                    </u>
28	60	32	Sand w/streaks of gravel	
60	74	14	Cemented gravel	
74	110	36	Sand and gravel	
110	225	15	Red bed	

Section 7. REMARKS AND ADDITIONAL INFORMATION

ò

ROSWELL M MEPLOE

STATE ENGINEER OFFICE

LO . در د

CID CID 5

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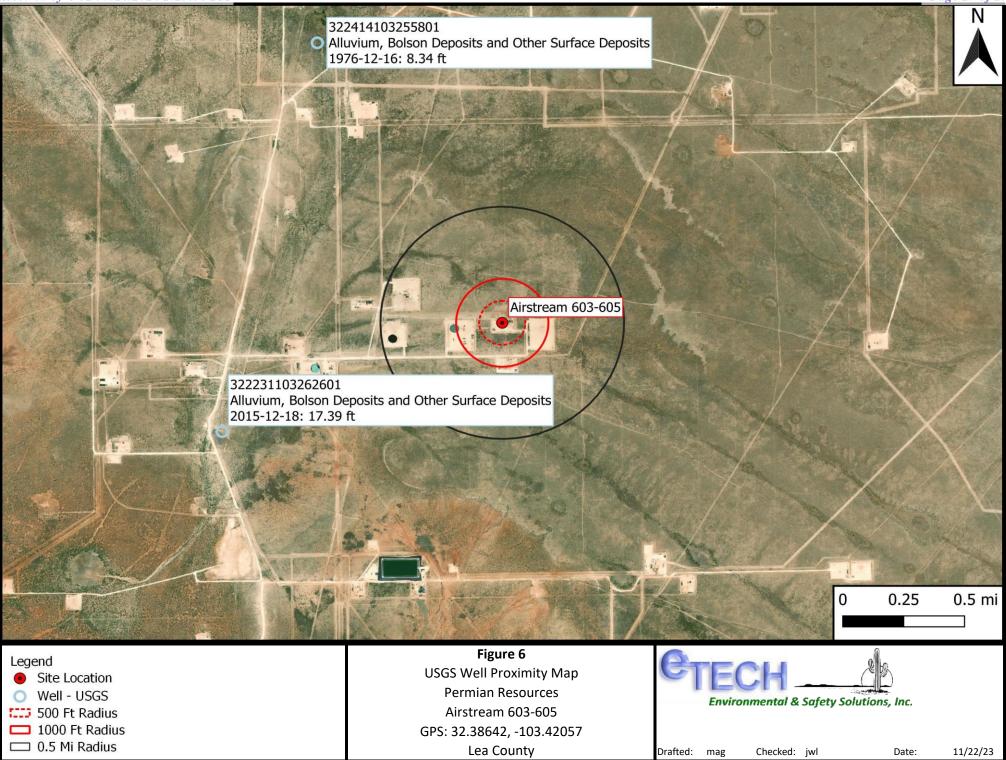
The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Murrell ( R

INSTRUCTIONS: This form should be accouted in triplicate, preferably typewritten, and submitted of the State Engineer. A. tions, e: Section 5, shall be answered as completely accurate Retillsed the finde of 27/2024 12: 57 504 PM's used as a plugging record, only Section 1(a) and Section ... need be completed.

: appropriate district office possible when any well is

*135* 



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### **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category: Groundwater Geographic Area: United States

GO

Click forNews Bulletins

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

# Search Results -- 1 sites found

Agency code = usgs site\_no list = • 322231103262601

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

## USGS 322231103262601 22S.34E.23.23131

Available data for this site Groundwater: Field measurements

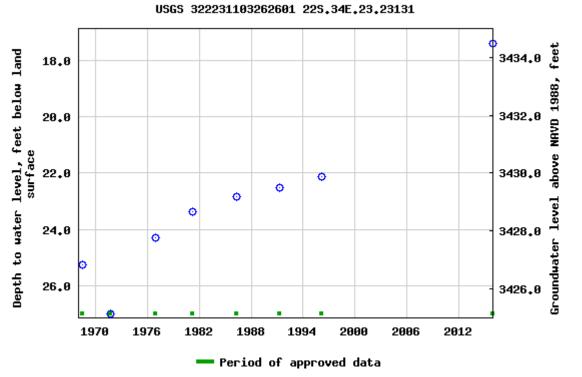
Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°22'47.6", Longitude 103°26'25.3" NAD83 Land-surface elevation 3,452 feet above NAVD88 The depth of the well is 60 feet below land surface. This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

### **Output formats**

 $\mathbf{v}$ 

GO

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



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels? USA.gov

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-11-22 12:20:09 EST 0.64 0.51 nadww01



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### **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category: Groundwater Geographic Area: United States

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Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

# Search Results -- 1 sites found

Agency code = usgs site\_no list = • 322414103255801

### **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

## USGS 322414103255801 22S.34E.11.24422

Available data for this site Groundwater: Field measurements

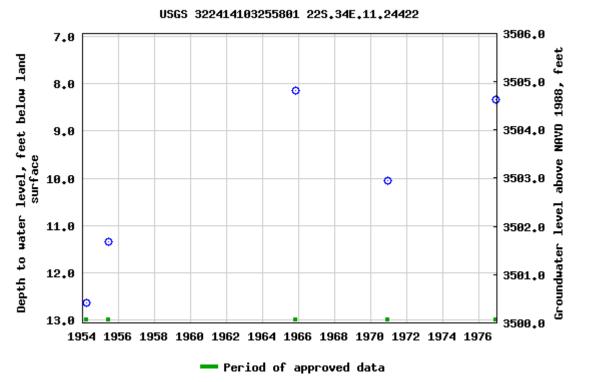
Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°24'14", Longitude 103°25'58" NAD27 Land-surface elevation 3,513 feet above NAVD88 The depth of the well is 16 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

 $\mathbf{v}$ 

GO

### **Output formats**

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



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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USA.gov

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-11-22 12:20:10 EST 0.59 0.47 nadww01

# **Appendix B** Field Data and Soil Boring Log



# WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

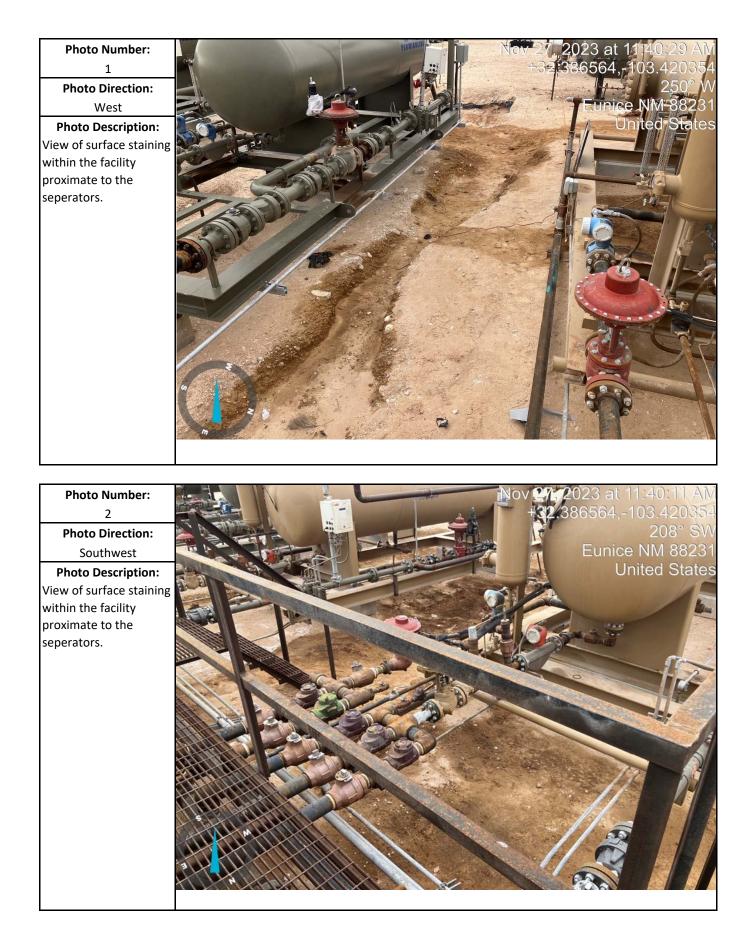
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) WELL TAG ID NO. Pod-1						OSE FILE NO(S). CP-02005						
	WELL OWNER NAME(S) Permian Resources						PHONE (OPTIONAL) 575-605-3471						
	WELL OWNER MAILING ADDRESS PO 3641							CITY ST Hobbs NI			88241	ZIP	
			DE	1				CY REQUIRED: ONE TENTH OF A SECOND					
CNER	(FROM GPS	LON	NGITUDE	-105 25 10.77 W			L	UM REQUIRED: WGS 84					
1. GF			G WELL LOCATION TO 2-34E Lea County N		RESS AND COMMON	LANDN	IARKS – PLS	SS (SECTION, TO	WNSHЛP, RANGE) WH	ERE AVA	ILABLE		
N	LICENSE NO. NAME OF LICENSED WD-1862			DRILLER James Hawley					NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC				
	DRILLING STARTED 7/12/24		DRILLING ENDED 7/12/24	DEPTH OF CC	OMPLETED WELL (FT 65	r)	BORE HO	DLE DEPTH (FT)         DEPTH WATER FIRST 1           65         65			ENCOUNTERED (FT) 60		
	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info be	DRY HOLE  SHALLOW (UNCONFINED) IN COM			C WATER LEVEL DATE STATIC MEASUR PILETED WELL 60 7/16/24						
ATIC	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:												
ORM	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:								CHECK HERE IF PITLESS ADAPTER IS				
DRILLING & CASING INFORMATION	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	(include	GRADE	ch casing string, and		ASING NECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WAI THICKNESS (inches)		SLOT SIZE (inches)	
	0	55	6	2" SCH 40 FJ Blank			(add coupling diameter) FJ thread 2.38"		2.0		0.19		
SNI	55 65		6	2" S0	CH 40 FJ 0.10 perf	FJ 0.10 perf FJ Three		read 2.38"	2.0		0.19	0.10	
DRILI													
2.													
	DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-								AMOUNT		METHO	D OF	
T	FROM	TO	DIAM. (inches)	I RAINUE DI INTERVAL				e spacing below)	(cubic feet)		PLACEMENT		
VTER				N/A							_		
NR MA													
ANNULAR MATERIAL													
3. AN													
FOP	OSE INTERI							W/D 2	0 WELL RECORD &	& LOG (	Version 00/2	2/2022)	
FILE		VAL USE			POD NO			TRN 1		x 100 (	v cision 09/2.	212022)	
LOCATION WELL TAG								WELL TAG II	AG ID NO. PAGE 1 OF 2				

•

			A CONTRACTOR OF				and the second second				
	DEPTH (feet bgl)			COLOR AND TYPE OF MATERIAL ENCOUNTERED -					WA	FFR	ESTIMATED YIELD FOR
	FROM	THICKNESS INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES							BEAR (YES	ING?	WATER- BEARING ZONES (gpm)
ŀ	0	10	10		white caliche				Y	✓ N	
ł	10	20	10		light tan sandy caliche				Y	√ N	
	20	63	43		light red alluvial sands			,	✓ Y	N	
	63	65	2		Red Bed				Y	✓ N	
									Y	N	
٦Ì									Y	Ν	
VEL									Y	Ν	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	Ν	
									Y	N	
QXI									Y	N	
4.1									Y	N	
ł									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	Ν	
									Y	N	
	METHOD USED TO ESTIMATE TIEED OF WATER-DEARING SHOTTH.					TOTA		N1/A			
	PUMP AIR LIFT BAILER OTHER – SPECIFY:							WELL	_ YIELI	O (gpm):	N/A
7	WELL TEST       TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.										
ISION											
ERV	MISCELLANEOUS INFORMATION: Well was installed at the Permian Resources Airstream CTB to determine depth of groundwater, casing was left in the hole until 7/16/24, gauged, pulled, and well bore was plugged.										
SUP	fort in the noise and in toriz i, gauged, paned, and it is a set in a proposition										
SIG											
TEST; RIG SUPERVISI	THE REPORT OF THE AND THE ADDRESS OF THE CONSTRUCTION OTHER THAN I ICENSEE.										
5. TE	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:										
ur)	Nathan Smelcer										
JRE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:										
SIGNATURE									7/10/24		
	James Hawley								7/19/24		
6.	SIGNATURE OF DRILLER / PRINT SIGNEE NAME								DATE		
	L		V				WP 20 WE				ersion 09/22/2022)
	R OSE INTER LE NO.	RNAL USE			POD NO.		TRN NO.	LL KEU			CISION 0712212022)
	CATION					WELL	TAG ID NO.				PAGE 2 OF 2

# **Appendix C** Photographic Log





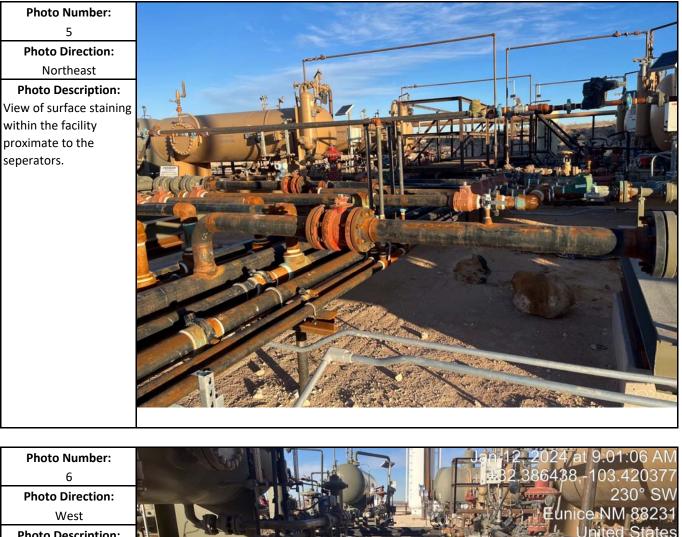
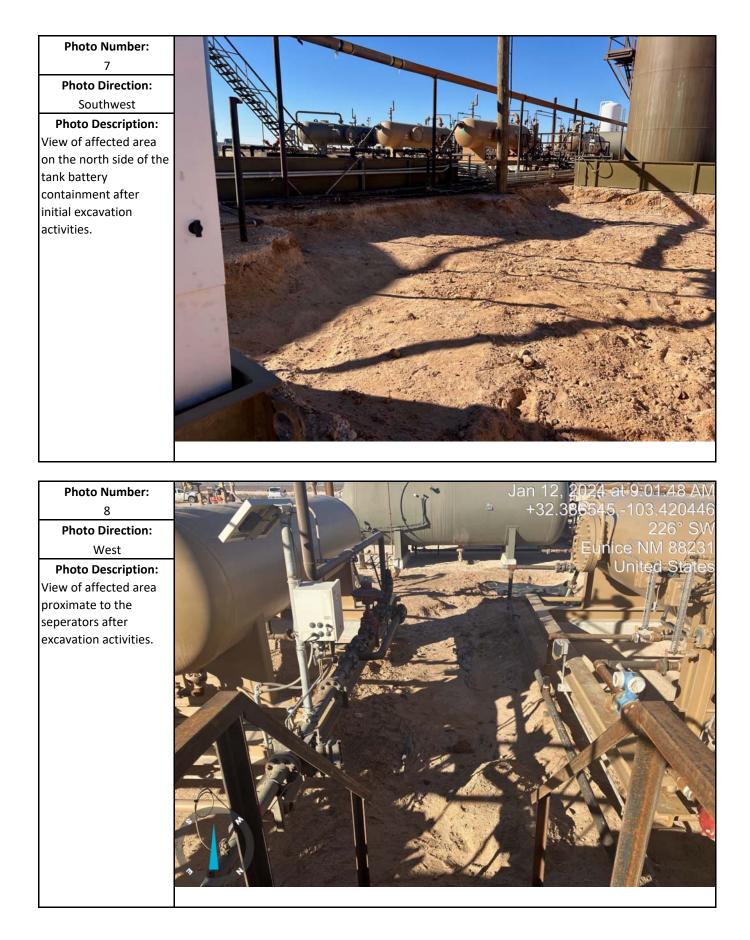
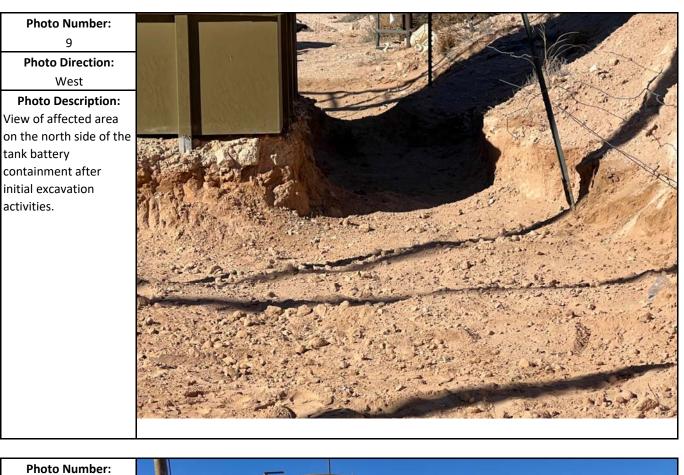


Photo Description: View of affected area proximate to the seperators after excavation activities.







10 Photo Direction: West Photo Description: View of affected area on the north side of the tank battery containment after initial excavation activities.





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# **Appendix D** Laboratory Analytical Reports



January 26, 2024

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: AIRSTREAM 603-605

Enclosed are the results of analyses for samples received by the laboratory on 01/23/24 8:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: SP 1 @ 1' (H240286-01)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	0.095	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	0.051	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	01/24/2024	ND	220	110	200	0.608	
DRO >C10-C28*	13600	100	01/24/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	4690	100	01/24/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	577	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: SP 2 @ 6' (H240286-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.72	0.500	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	29.2	0.500	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	23.0	0.500	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	80.1	1.50	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	134	3.00	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 71.5-13	24						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1400	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	3620	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	529	10.0	01/23/2024	ND					
Surrogate: 1-Chlorooctane	168	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	18						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: SP 3 @ 1' (H240286-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	7.55	0.500	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	5.90	0.500	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	22.9	1.50	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	36.4	3.00	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	745	100	01/24/2024	ND	220	110	200	0.608	
DRO >C10-C28*	12400	100	01/24/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	2210	100	01/24/2024	ND					
Surrogate: 1-Chlorooctane	342	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	307	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: SP 4 @ 1' (H240286-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	1.64	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	2.51	0.050	01/23/2024	ND	2.23	111	2.00	4.06	QM-07
Total Xylenes*	9.24	0.150	01/23/2024	ND	6.68	111	6.00	3.91	QM-07
Total BTEX	13.4	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	169	% 71.5-13	24						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	408	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	8100	10.0	01/24/2024	ND	205	102	200	0.276	QM-07
EXT DRO >C28-C36	1480	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	149	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	223	% 49.1-14	18						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: WH - 1 @ 1' (H240286-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	0.332	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	0.171	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	0.559	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	1.06	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	56.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: WH - 2 @ 1' (H240286-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	<0.050	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: SH - 1 @ 1' (H240286-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	<0.050	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	18.2	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	83.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: SH - 2 @ 1' (H240286-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	<0.050	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	177	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	77.2	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: EH - 1 @ 1' (H240286-09)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	<0.050	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: EH - 2 @ 1' (H240286-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	<0.050	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	64.3	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	37.1	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: NH - 1 @ 1' (H240286-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	<0.050	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	<10.0	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	<10.0	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2024	Sampling Date:	01/22/2024
Reported:	01/26/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Shalyn Rodriguez
Project Location:	GPS: (32.38642, -103.42057)		

#### Sample ID: NH - 2 @ 1' (H240286-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.31	116	2.00	1.02	
Toluene*	<0.050	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
Total BTEX	<0.300	0.300	01/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/23/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2024	ND	204	102	200	2.51	
DRO >C10-C28*	70.7	10.0	01/24/2024	ND	205	102	200	0.276	
EXT DRO >C28-C36	21.8	10.0	01/24/2024	ND					
Surrogate: 1-Chlorooctane	71.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 16

- Released to Imaging: 9/27/2024 12:57:04 PM

(575) 393-2326 FAX (575) 393-2476

Company Nam	e: Etech Environment	tal & Safety Sol	utior	ns, Ir	nc.				22	999	B	ILL TO	0	245			
Project Manage	er: Joel Lowry								P.C	), #:	0		11111		-	-	ANALYSIS REQUEST
Address: 26	17 West Marland													-			
City: Hobbs		State: NM	Zij	p: 88	8240	)				mpa	ily		tech	-			
Phone #: (57	(5) 264-9884	Fax #:							Attn: Joel Lowry								
Project #: 193	397	Project Owne		P	armis	an Re	000		Address:								
Project Name:	Airstream 603-605	oject o unic			anna	III Ke	sour	ces	City	/:							
	n: GPS: (32.38642, -1	03 42057)							Stat	te:		Zip:		e e	5M	18	
	Martin Sepulveda	03.42037)							Pho	one #	ł:			Chloride	801	BTEX (8021B)	
FOR LAB USE ONLY	Martin Sepulveda		_	_	_				Fax	#:				- F	TPH (8015M)	X	
			<u>.</u>			MA	ATRI	X	F	PRES	ERV	SAMP	LING		₽		
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE	TIME				
	SP1 @ 1'		G	1	$\square$	X				X		1/22/24		Х	x	x	
	SP2 @ 6'		G	1	$\vdash$	X				X		1/22/24		X	х	x	
(1	SP3 @ 1'		G	1	$\vdash$	X				X		1/22/24		х	х	x	
	SP4 @ 1'		G	1	$\vdash$	X				X		1/22/24		х	х	х	
	WH-1 @ 1' WH-2 @ 1'		G	1		X				Х		1/22/24		х	х	х	
	SH-1 @ 1'		G	1		X				Х		1/22/24		х	х	х	
	SH-1 @ 1 SH-2 @ 1'		G	1	_	X	$\square$	_		Х		1/22/24		X	х	х	
	EH-1 @ 1'		G	1	_	X				Х		1/22/24		х	х	Х	
	EH-2 @ 1'		G	1	_	Х		_		Х		1/22/24		X	х	х	
LEASE NOTE: Liability and	Damagas Cardinal's list it	exclusive remedy for any	G	1 arising	whothe	X				X		1/22/24		Х	X	х	
	final be liable for incidental or consequer out of or related to the performance of s	ntal damages, including v services hereunder by Car	vithout l dinal, r	limitatio egardl		iness inte whether s							er completion of the client, its subsidiari asons or otherwise	e applicable es,			
elinguished By:	m	Time: 0810	8	Re		tR	9	N	l	y			Phone Res Fax Result REMARKS	: 1	□ Yes □ Yes		No Add'I Phone #: No Add'I Fax #:
Delivered By: ( ampler - UPS -		Гіте: Эс #14(			San	nple ( ol lr		ition		CHE			Please en	nail co	py of	сос	C and results to pm@etechenv.com.
FORM-006 Revision 1.				can		No acce	and the second division of the second divisio	vo erba	l cha	ange	s. Pl	lease fax	written ch	anges	to 57	5-393-	3-2476

Page 59 of 135

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	101 East Ma				

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: Etech Environmental & Safety Sol	utior	is, I	nc.					20	2	R	ILL T	0	240		and the second second	
Project Manager: Joel Lowry								P.O.	#.	D			8		_	ANALYSIS REQUEST
Address: 2617 West Marland							t						-			
City: Hobbs State: NM	Zi	p: 8	824	0				Com		ny	E	tech	-			
Phone #: (575) 264-9884 Fax #:								Attn: Joel Lowry Address:					-			
Project #: 19397 Project Owned	25	P	orm	ian F	2000		-			s:			1			
Project Name: Airstream 603-605	. 15	-	enn		test	urce	s	City:								
Project Location: GPS: (32.38642, -103.42057)							s	State	:		Zip:		e e	5M	1 2	
Sampler Name: Martin Sepulveda							P	hon	ne #	ŧ:			Chloride	TPH (8015M)	BTEX (8021E)	
FOR LAB USE ONLY	_	-	-				F	ax #	-				- F	Ē	1 X	
	<u>م</u>		⊢		MAT	RIX	-	PF	RES	ERV	. SAMP	LING	1	⊨		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL		OTHER .	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME				
NH-1 @ 1'	G	1			х				Х		1/22/24		Х	х	X	
NH-2 @ 1'	G	1			X				Х		1/22/24		Х	Х	X	
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for an nanayses. All claims including those for negligence and any other cause whatsoever shall be diervice. In no event shall Cardinal be liable for incidental or consequential damages, including the liable for incidental or consequential damages, including the performance of services hereunder by Cardinal Structures and the performance of services hereunder by Cardinal Structures and the services hereun		limitat regard	ion, bu lless o	isiness f wheth	• III IIII	any an	iece	iveu by	Card	inal wit	hin 30 days after	er completion of th	e annlicabl	e		
Relinquished By: Date: Date: Date:	5	374	cui	)C								Phone Res Fax Result REMARKS	sult:	□ Yes □ Yes		No     Add'I Phone #:       No     Add'I Fax #:
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Sampler - UPS - Bus - Other: -4. 22	40		C	ool Ye	Inta	ct		2		CKE		i icase el	nall CO	by of	00	C and results to pm@etechenv.com.
FORM-006 † Card Revision 1.0	linal	ca	nno		And a local diversity of the	and the owner where the party is not	bal	char	nge	s. P	lease fax	written ch	anges	to 57	5-39	03-2476

Received by OCD: 9/16/2024 2:13:58 PM

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February 13, 2024

ROBBIE RUNNELS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: AIRSTREAM 603-605

Enclosed are the results of analyses for samples received by the laboratory on 02/01/24 14:53.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project Number:	AIRSTREAM 603-605 19397 ROBBIE RUNNELS	Reported: 13-Feb-24 15:48
---	-----------------	--	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DEF - 1 @ 6"	H240494-01	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 2 @ 6"	H240494-02	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 3 @ 6"	H240494-03	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 4 @ 6"	H240494-04	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 5 @ 6"	H240494-05	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 6 @ 6"	H240494-06	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 7 @ 6"	H240494-07	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 8 @ 6"	H240494-08	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 1 @ 6'-R	H240494-09	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 2 @ 2'	H240494-10	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 3 @ 3'-R	H240494-11	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 4 @ 4'-R	H240494-12	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 5 @ 8'-R	H240494-13	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 6 @ 5'-R	H240494-14	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 7 @ 1.5'	H240494-15	Soil	31-Jan-24 00:00	01-Feb-24 14:53
DEF - 8 @ 1'	H240494-16	Soil	31-Jan-24 00:00	01-Feb-24 14:53
SP - 1 @ 2'-R	H240494-17	Soil	31-Jan-24 00:00	01-Feb-24 14:53
SP - 2 @ 3'-R	H240494-18	Soil	31-Jan-24 00:00	01-Feb-24 14:53
SP-3 @ 2'-R	H240494-19	Soil	31-Jan-24 00:00	01-Feb-24 14:53
SP-4 @ 10'-R	H240494-20	Soil	31-Jan-24 00:00	01-Feb-24 14:53
WH - 1 @ SURF	H240494-21	Soil	31-Jan-24 00:00	01-Feb-24 14:53
WH - 2 @ SURF	H240494-22	Soil	31-Jan-24 00:00	01-Feb-24 14:53
NH - 1 @ SURF	H240494-23	Soil	31-Jan-24 00:00	01-Feb-24 14:53
NH - 2 @ SURF	H240494-24	Soil	31-Jan-24 00:00	01-Feb-24 14:53
SH - 1 @ SURF	H240494-25	Soil	31-Jan-24 00:00	01-Feb-24 14:53
SH - 2b @ SURF	H240494-26	Soil	31-Jan-24 00:00	01-Feb-24 14:53
SH - 2b @ 1'	H240494-27	Soil	31-Jan-24 00:00	01-Feb-24 14:53

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safet 2617 W MARLAND HOBBS NM, 88240	y Solutions	Project Number:	ROBBIE RUNNELS	Reported: 13-Feb-24 15:48
EH - 1 @ SURF	H240494-28	Soil	31-Jan-24 00:00	01-Feb-24 14:53
EH - 2b @ 1'	H240494-29	Soil	31-Jan-24 00:00	01-Feb-24 14:53
EH - 2b @ SURF	H240494-30	Soil	31-Jan-24 00:00	01-Feb-24 14:53

02/07/24 - Client changed the sample ID on -29 (see COC). This is the revised report and will replace the one sent on 02/06/24.

02/13/24 - Client changed the sample IDs on -26, -27, -29 and 30 (see COC). This is the 2nd revision of the report and will replace the one sent on 02/07/24.

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	/ Solutions		Project Num Project Mana		1	Reported: 13-Feb-24 15:48				
				- 1 @ ( 194-01 (Se						
			Reporting	<b>1)1-01 (5</b> 0	, , , , , , , , , , , , , , , , , , ,					
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds Chloride	464		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	v EPA Method	8021								S-04
Benzene*	0.668	0021	0.100	mg/kg	100	4020207	ЛН	03-Feb-24	8021B	
Toluene*	12.7		0.100	mg/kg	100	4020207	ЛН	03-Feb-24	8021B	
Ethylbenzene*	11.2		0.100	mg/kg	100	4020207	ЛН	03-Feb-24	8021B	
Total Xylenes*	31.4		0.300	mg/kg	100	4020207	JH	03-Feb-24	8021B	
Total BTEX	56.0		0.600	mg/kg	100	4020207	ЛН	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			178 %	71.5	-134	4020207	ЛН	03-Feb-24	8021B	
Petroleum Hydrocarbons by GO	C FID									S-06
GRO C6-C10*	620		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	9770		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	1810		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			116 %	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			206 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	/ Solutions		Project Num Project Mana		1	Reported: 13-Feb-24 15:48				
				- 2 @ 6 194-02 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds			16.0			4020526	075	05 5 1 04	4500 CLD	
Chloride	80.0		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								S-04
Benzene*	0.315		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Toluene*	6.32		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Ethylbenzene*	6.54		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Total Xylenes*	19.1		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Total BTEX	32.3		0.300	mg/kg	50	4020207	ЛН	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			216 %	71.5	-134	4020207	JH	03-Feb-24	8021B	
Petroleum Hydrocarbons by GO	C FID									S-04
GRO C6-C10*	408		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	3260		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	582		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			138 %	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			112 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240		Project Num Project Mana Fax	ber: 193	BIE RUNN	1	Reported: 13-Feb-24 15:48				
				- 3 @ (So 194-03 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	1150		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								S-04
Benzene*	0.269		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Toluene*	3.72		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Ethylbenzene*	3.08		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Total Xylenes*	9.71		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Total BTEX	16.8		0.300	mg/kg	50	4020207	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			174 %	71.5	-134	4020207	ЈН	03-Feb-24	8021B	
Petroleum Hydrocarbons by GO	C FID									S-06
GRO C6-C10*	384		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	18400		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	4310		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			129 %	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			450 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safet 2617 W MARLAND HOBBS NM, 88240	y Solutions		Project: AIRSTREAM 603-605 Project Number: 19397 Project Manager: ROBBIE RUNNELS Fax To:						Reported: 13-Feb-24 15:48		
				- 4 @ 6 194-04 (So							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	112		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B		
Volatile Organic Compounds by	y EPA Method	8021								S-04	
Benzene*	0.171		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Toluene*	0.778		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Ethylbenzene*	1.90		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Total Xylenes*	7.53		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Total BTEX	10.4		0.300	mg/kg	50	4020207	ЛН	03-Feb-24	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			213 %	71.5	-134	4020207	ЈН	03-Feb-24	8021B		
Petroleum Hydrocarbons by G	C FID									S-06	
GRO C6-C10*	488		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B		
DRO >C10-C28*	27700		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B		
EXT DRO >C28-C36	5210		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B		
Surrogate: 1-Chlorooctane			180 %	48.2	-134	4020147	MS	02-Feb-24	8015B		
Surrogate: 1-Chlorooctadecane			598 %	49.1	-148	4020147	MS	02-Feb-24	8015B		

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Saf 2617 W MARLAND HOBBS NM, 88240	ety Solutions		Project: AIRSTREAM 603-605 Project Number: 19397 Project Manager: ROBBIE RUNNELS Fax To:						Reported: 13-Feb-24 15:48		
				- 5 @ 6 194-05 (Sc							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	160		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B		
Volatile Organic Compounds	by EPA Method 8	8021									
Benzene*	< 0.050		0.050	mg/kg	50	4020207	ЛН	03-Feb-24	8021B		
Toluene*	0.415		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Ethylbenzene*	0.562		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Total Xylenes*	1.78		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Total BTEX	2.76		0.300	mg/kg	50	4020207	JH	03-Feb-24	8021B		
Surrogate: 4-Bromofluorobenzene (PII	))		121 %	71.5	-134	4020207	ЛН	03-Feb-24	8021B		
Petroleum Hydrocarbons by	GC FID									<u>S-06</u>	
GRO C6-C10*	<50.0		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B		
DRO >C10-C28*	21700		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B		
EXT DRO >C28-C36	5880		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B		
Surrogate: 1-Chlorooctane			91.7 %	48.2	-134	4020147	MS	02-Feb-24	8015B		
Surrogate: 1-Chlorooctadecane			577 %	49.1	-148	4020147	MS	02-Feb-24	8015B		

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Saf 2617 W MARLAND HOBBS NM, 88240					STREAM 60 97 BBIE RUNN	Reported: 13-Feb-24 15:48				
				- 6 @ 6 194-06 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	912		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds		8021	1010	6 6						S-04
Benzene*	<0.500		0.500	mg/kg	500	4020207	ЛН	03-Feb-24	8021B	
Toluene*	17.7		0.500	mg/kg	500	4020207	ЛН	03-Feb-24	8021B	
Ethylbenzene*	19.0		0.500	mg/kg	500	4020207	ЛН	03-Feb-24	8021B	
Total Xylenes*	65.4		1.50	mg/kg	500	4020207	ЛН	03-Feb-24	8021B	
Total BTEX	102		3.00	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		144 %	71.5	-134	4020207	JH	03-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									S-06
GRO C6-C10*	1500		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	35500		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	6220		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			179 %	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			751 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Saf 2617 W MARLAND HOBBS NM, 88240		Project: AIRSTREAM 603-605 Project Number: 19397 Project Manager: ROBBIE RUNNELS Fax To:						Reported: 13-Feb-24 15:48		
				' - 7 @ 6 194-07 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	1280		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020207	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020207	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020207	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020207	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020207	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		103 %	71.5	-134	4020207	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	10.9		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			95.5 %	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			93.6 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240		Project: AIRSTREAM 603-605 Project Number: 19397 Project Manager: ROBBIE RUNNELS Fax To:						Reported: 13-Feb-24 15:48		
				' - 8 @ 6 194-08 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	224		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds		8021		0.0						
Benzene*	<0.050	021	0.050	mg/kg	50	4020207	ЛН	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020207	ЛН	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020207	ЛН	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020207	ЈН	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020207	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		102 %	71.5	-134	4020207	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	401		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	222		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			<i>97.9 %</i>	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240		Project: AIRSTREAM 603-605 Project Number: 19397 Project Manager: ROBBIE RUNNELS Fax To:						Reported: 13-Feb-24 15:48		
				- 1 @ 6' 494-09 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	1120		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								S-04
Benzene*	1.60		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Toluene*	60.2		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Ethylbenzene*	48.1		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Total Xylenes*	130		1.50	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Total BTEX	240		3.00	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			155 %	71.5	-134	4020207	JH	03-Feb-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	1980		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	5360		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	836		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			125 %	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

#### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240	HOBBS NM, 88240 Project Manager: ROBBIE RUNNELS Fax To:								48	
				7 - 2 @ 2 494-10 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	368		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								S-04
Benzene*	0.286		0.100	mg/kg	100	4020207	ЛН	03-Feb-24	8021B	
Toluene*	7.31		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
Ethylbenzene*	6.99		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
Total Xylenes*	21.0		0.300	mg/kg	100	4020207	JH	03-Feb-24	8021B	
Total BTEX	35.6		0.600	mg/kg	100	4020207	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			164 %	71.5	-134	4020207	ЛН	03-Feb-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	314		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
DRO >C10-C28*	3910		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	745		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			123 %	48.2	-134	4020147	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	4020147	MS	02-Feb-24	8015B	

## **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety SolutionsProject:AIRSTREAM 603-605Reported:2617 W MARLANDProject Number:1939713-Feb-24 15:48HOBBS NM, 88240Project Manager:ROBBIE RUNNELSFax To:								48		
				- 3 @ 3' 494-11 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	<2.00		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	QM-07
Toluene*	43.5		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	QM-07
Ethylbenzene*	33.6		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	QM-07
Total Xylenes*	103		6.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	QM-07
Total BTEX	180		12.0	mg/kg	2000	4020209	ЛН	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	I		107 %	71.5	-134	4020209	JH	03-Feb-24	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10*	2000		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
DRO >C10-C28*	5140		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	783		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctane			123 %	48.2	-134	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4020147	MS	03-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240	ety Solutions		Project Num Project Mana	, ber: 193				1	Reported: 3-Feb-24 15:4	48
				- 4 @ 4' 194-12 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	48.0		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								S-04
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	0.881		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	0.956		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	3.71		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	5.55		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		172 %	71.5	-134	4020209	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10*	126		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
DRO >C10-C28*	1650		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	317		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctane			114 %	48.2	-134	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	4020147	MS	03-Feb-24	8015B	

## **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	Solutions		Project Num Project Mana Fax DEF	ber: 193	BIE RUNN			1	Reported: 3-Feb-24 15:	48
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	5.70		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Toluene*	121		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Ethylbenzene*	90.2		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Total Xylenes*	266		6.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Total BTEX	483		12.0	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			130 %	71.5	-134	4020209	JH	03-Feb-24	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	2110		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
DRO >C10-C28*	4820		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	716		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctane			130 %	48.2	-134	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	4020147	MS	03-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	Solutions		Project Num Project Mana Fax	ber: 193 ger: ROE To:	BIE RUNN			1	Reported: 3-Feb-24 15:	48
				- 6 @ 5' 194-14 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	(4.0		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Chloride	64.0		16.0	mg/kg	4	4020320	CI	05-Feb-24	4300-СІ-В	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			90.1 %	71.5	-134	4020209	JH	02-Feb-24	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctane			96.9 %	48.2	-134	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			96.4 %	49.1	-148	4020147	MS	03-Feb-24	8015B	

#### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240	ety Solutions		Project Num Project Mana	ber: 193				1	Reported: 13-Feb-24 15:4	18
				- 7 @ 1 194-15 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	112		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		116 %	71.5	-134	4020209	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctane			91.9 %	48.2	-134	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			90.7 %	49.1	-148	4020147	MS	03-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Saf 2617 W MARLAND HOBBS NM, 88240	ety Solutions		Project Num Project Mana	, ber: 193				1	Reported: 3-Feb-24 15:4	48
				7 - 8 @ 1 494-16 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	208		16.0	mg/kg	4	4020526	СТ	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	0.090		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		104 %	71.5	-134	4020209	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
DRO >C10-C28*	182		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	37.8		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctane			92.7 %	48.2	-134	4020147	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			92.6 %	49.1	-148	4020147	MS	03-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240	ety Solutions		Project Num Project Mana	, ber: 193				1	Reported: 3-Feb-24 15:4	48
				1 @ 2'- 194-17 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	0.258		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	0.081		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	0.482		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		108 %	71.5	-134	4020209	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	327		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	111		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			93.1 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			114 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240	ety Solutions		Project Num Project Mana	ber: 193				1	Reported: 3-Feb-24 15:4	18
				2 @ 3'- 194-18 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds Chloride	960		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds		8021	1010	8 8						
Benzene*	2.21	0021	1.00	mg/kg	1000	4020209	ЛН	03-Feb-24	8021B	
Toluene*	31.8		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
Ethylbenzene*	18.6		1.00	mg/kg	1000	4020209	ЛН	03-Feb-24	8021B	
Total Xylenes*	57.1		3.00	mg/kg	1000	4020209	ЛН	03-Feb-24	8021B	
Total BTEX	110		6.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		113 %	71.5	-134	4020209	ЛН	03-Feb-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	592		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	2850		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	562		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			121 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	Solutions		Project Num Project Mana Fax	ber: 193	BIE RUNN			1	Reported: 3-Feb-24 15:	48
			H2404	494-19 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								S-04
Benzene*	1.46		1.00	mg/kg	1000	4020209	ЛН	03-Feb-24	8021B	
Toluene*	46.6		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
Ethylbenzene*	50.1		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
Total Xylenes*	163		3.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
Total BTEX	261		6.00	mg/kg	1000	4020209	ЛН	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			142 %	71.5	-134	4020209	ЈН	03-Feb-24	8021B	
Petroleum Hydrocarbons by GC	C FID									S-04
GRO C6-C10*	1710		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	4870		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	882		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			180 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			123 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	Solutions		Project Num Project Mana	ber: 193				1	Reported: 3-Feb-24 15:	48
				4 @ 10'- 494-20 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	17.1		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Toluene*	203		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Ethylbenzene*	106		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Total Xylenes*	306		6.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Total BTEX	632		12.0	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			117 %	71.5	-134	4020209	ЈН	03-Feb-24	8021B	
Petroleum Hydrocarbons by GC	FID									S-04
GRO C6-C10*	3120		10.0	mg/kg	1	4020148	MS	03-Feb-24	8015B	
DRO >C10-C28*	5920		10.0	mg/kg	1	4020148	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	1070		10.0	mg/kg	1	4020148	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctane			213 %	48.2	-134	4020148	MS	03-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			134 %	49.1	-148	4020148	MS	03-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	Solutions		Project Num Project Mana	ber: 193				1	Reported: 3-Feb-24 15:	48
				1 @ SU 494-21 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds						1000010				
Chloride	144		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	4020209	ЛН	02-Feb-24	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			76.0 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			81.1 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safe 2617 W MARLAND HOBBS NM, 88240	ety Solutions		)3-605 ELS		1	Reported: 3-Feb-24 15:4	48			
				2 @ SU 494-22 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	16.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		98.8 %	71.5	-134	4020209	ЛН	02-Feb-24	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			88.6 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			96.4 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Saf 2617 W MARLAND HOBBS NM, 88240	AND Project Number: 19397									48
				1 @ SUI 194-23 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	3021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	))		111 %	71.5	-134	4020209	ЛН	02-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			93.0 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			100 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	- · · · · · · ·										
				2 @ SU 194-24 (Se							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Labora	tories						
Inorganic Compounds Chloride	48.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	4020209	ЛН	02-Feb-24	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	4020209	ЛН	02-Feb-24	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5	-134	4020209	ЛН	02-Feb-24	8021B		
Petroleum Hydrocarbons by GC	FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B		
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B		
Surrogate: 1-Chlorooctane			95.6 %	48.2	-134	4020148	MS	02-Feb-24	8015B		
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4020148	MS	02-Feb-24	8015B		

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Saf 2617 W MARLAND HOBBS NM, 88240		1	Reported: 13-Feb-24 15:4	48						
				1 @ SUI 494-25 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL	))		106 %	71.5	-134	4020209	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	42.1		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			85.2 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			96.2 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safet 2617 W MARLAND HOBBS NM, 88240	y Solutions		Project Num Project Mana Fax	, iber: 193	BIE RUNN			1	Reported: 3-Feb-24 15:	48
				494-26 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	ЈН	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5	-134	4020209	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	19.2		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			83.7 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			92.3 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240	Solutions		Project Num Project Mana	, ber: 193		1	Reported: 13-Feb-24 15:48			
				- 2b @ 1 494-27 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
<u>Inorganic Compounds</u> Chloride	16.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	4020209	ЛН	02-Feb-24	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			92.3 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Sa 2617 W MARLAND HOBBS NM, 88240										
				1 @ SUI 494-28 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		94.9 %	71.5	-134	4020209	ЛН	02-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			91.5 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety 2617 W MARLAND HOBBS NM, 88240		1	Reported: 3-Feb-24 15:	48						
				- 2b @ 1 194-29 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	ЛН	02-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	4020209	ЈН	02-Feb-24	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			93.0 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			100 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Sa 2617 W MARLAND HOBBS NM, 88240	fety Solutions		1	Reported: 3-Feb-24 15:4	48					
				2b @ SU 194-30 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	32.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4020209	JH	03-Feb-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4020209	JH	03-Feb-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4020209	JH	03-Feb-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4020209	JH	03-Feb-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4020209	JH	03-Feb-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		108 %	71.5	-134	4020209	ЛН	03-Feb-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctane			78.3 %	48.2	-134	4020148	MS	02-Feb-24	8015B	
Surrogate: 1-Chlorooctadecane			85.8 %	49.1	-148	4020148	MS	02-Feb-24	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project Number:	AIRSTREAM 603-605 19397 ROBBIE RUNNELS	Reported: 13-Feb-24 15:48
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## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

				_					
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	05-Feb-24				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	05-Feb-24				
432	16.0	mg/kg	400		108	80-120			
			Prepared &	Analyzed:	05-Feb-24				
432	16.0	mg/kg	400		108	80-120	0.00	20	
			Prepared &	Analyzed:	05-Feb-24				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	05-Feb-24				
400	16.0	mg/kg	400		100	80-120			
			Prepared &	Analyzed:	05-Feb-24				
432	16.0	mg/kg	400		108	80-120	7.69	20	
	432 432 ND 400	ND       16.0         432       16.0         432       16.0         432       16.0         432       16.0         400       16.0	Result         Limit         Units           ND         16.0         mg/kg           432         16.0         mg/kg	Result     Limit     Units     Level       Prepared &       ND     16.0     mg/kg       432     16.0     mg/kg     400       432     16.0     mg/kg     400       432     16.0     mg/kg     400       Prepared &     Prepared &       432     16.0     mg/kg       432     16.0     mg/kg       400     16.0     mg/kg       Prepared &     Prepared &       400     16.0     mg/kg	Result     Limit     Units     Level     Result       Prepared & Analyzed:     Prepared & Analyzed:       ND     16.0     mg/kg       432     16.0     mg/kg       400     16.0     mg/kg       400     16.0     mg/kg       400     16.0     mg/kg	Result         Limit         Units         Level         Result         %REC           Prepared & Analyzed: 05-Feb-24           ND         16.0         mg/kg           Prepared & Analyzed: 05-Feb-24         97           432         16.0         mg/kg           432         16.0         mg/kg           432         16.0         mg/kg           432         16.0         mg/kg           Prepared & Analyzed: 05-Feb-24           432         16.0         mg/kg           Prepared & Analyzed: 05-Feb-24           MD         16.0         mg/kg           Prepared & Analyzed: 05-Feb-24           MO         16.0         mg/kg           Prepared & Analyzed: 05-Feb-24           M00         16.0         mg/kg           Prepared & Analyzed: 05-Feb-24	Result         Limit         Units         Level         Result         %REC         Limits           Prepared & Analyzed: 05-Feb-24           ND         16.0         mg/kg         Prepared & Analyzed: 05-Feb-24           432         16.0         mg/kg         400         108         80-120           Prepared & Analyzed: 05-Feb-24         Prepared & Analyzed: 05-Feb-24         96-120         97-120           432         16.0         mg/kg         400         108         80-120           Prepared & Analyzed: 05-Feb-24           432         16.0         mg/kg         400         108         80-120           Prepared & Analyzed: 05-Feb-24           MD         16.0         mg/kg         97-120         97-120           Prepared & Analyzed: 05-Feb-24           MD         16.0         mg/kg         400         100         80-120           Prepared & Analyzed: 05-Feb-24           400         16.0         mg/kg         400         100         80-120           Prepared & Analyzed: 05-Feb-24	Result         Limit         Units         Level         Result         %REC         Limits         RPD           Prepared & Analyzed: 05-Feb-24           ND         16.0         mg/kg         Prepared & Analyzed: 05-Feb-24         Velocitie         Velociti	Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit           Prepared & Analyzed: 05-Feb-24           ND         16.0         mg/kg         Prepared & Analyzed: 05-Feb-24

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Volatile Organic Compounds by EPA Method 8021 - Quality Control

		Reporting	_	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4020207 - Volatiles										
Blank (4020207-BLK1)				Prepared &	Analyzed:	<u>02-Feb-</u> 24				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			
LCS (4020207-BS1)				Prepared &	Analyzed:	<u>02-F</u> eb-24				
Benzene	2.21	0.050	mg/kg	2.00		110	82.8-130			
Toluene	2.21	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.21	0.050	mg/kg	2.00		110	85.9-128			
m,p-Xylene	4.46	0.100	mg/kg	4.00		112	89-129			
o-Xylene	2.19	0.050	mg/kg	2.00		109	86.1-125			
Total Xylenes	6.65	0.150	mg/kg	6.00		111	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			
LCS Dup (4020207-BSD1)				Prepared &	Analyzed:	02-Feb-24				
Benzene	1.98	0.050	mg/kg	2.00		98.8	82.8-130	11.1	15.8	
Toluene	1.98	0.050	mg/kg	2.00		99.0	86-128	11.1	15.9	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	85.9-128	11.5	16	
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89-129	9.94	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	86.1-125	11.4	16.7	
Total Xylenes	5.99	0.150	mg/kg	6.00		99.8	88.2-128	10.4	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

## Batch 4020209 - Volatiles

Blank (4020209-BLK1)			Prepared & Analyzed: 02-Feb-24
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

## Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project Number:	AIRSTREAM 603-605 19397 ROBBIE RUNNELS	Reported: 13-Feb-24 15:48
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## Volatile Organic Compounds by EPA Method 8021 - Quality Control

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4020209 - Volatiles										
Blank (4020209-BLK1)				Prepared &	Analyzed:	02-Feb-24	ļ			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			
LCS (4020209-BS1)				Prepared &	Analyzed:	02-Feb-24				
Benzene	2.19	0.050	mg/kg	2.00		109	82.8-130			
Toluene	2.15	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.27	0.050	mg/kg	2.00		113	85.9-128			
m,p-Xylene	4.44	0.100	mg/kg	4.00		111	89-129			
o-Xylene	2.24	0.050	mg/kg	2.00		112	86.1-125			
Total Xylenes	6.68	0.150	mg/kg	6.00		111	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0531		mg/kg	0.0500		106	71.5-134			
LCS Dup (4020209-BSD1)				Prepared &	Analyzed:	02-Feb-24	ļ			
Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130	4.08	15.8	
Toluene	2.05	0.050	mg/kg	2.00		102	86-128	4.97	15.9	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	85.9-128	5.71	16	
m,p-Xylene	4.20	0.100	mg/kg	4.00		105	89-129	5.64	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00		105	86.1-125	5.98	16.7	
Total Xylenes	6.31	0.150	mg/kg	6.00		105	88.2-128	5.75	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	71.5-134			

### Cardinal Laboratories

## \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project Number:	AIRSTREAM 603-605 19397 ROBBIE RUNNELS	Reported: 13-Feb-24 15:48	
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## Petroleum Hydrocarbons by GC FID - Quality Control

Carumai Laboratories	Cardinal	Laboratories
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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4020147 - General Prep - Organics										
Blank (4020147-BLK1)				Prepared: (	)1-Feb-24 A	Analyzed: 0	2-Feb-24			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.7	48.2-134			
Surrogate: 1-Chlorooctadecane	48.6		mg/kg	50.0		97.1	49.1-148			
LCS (4020147-BS1)				Prepared: (	)1-Feb-24 A	analyzed: 0	2-Feb-24			
GRO C6-C10	219	10.0	mg/kg	200		110	66.4-123			
DRO >C10-C28	230	10.0	mg/kg	200		115	66.5-118			
Total TPH C6-C28	449	10.0	mg/kg	400		112	77.6-123			
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	49.1-148			
LCS Dup (4020147-BSD1)				Prepared: (	)1-Feb-24 A	Analyzed: 0	2-Feb-24			
GRO C6-C10	212	10.0	mg/kg	200		106	66.4-123	3.59	17.7	
DRO >C10-C28	220	10.0	mg/kg	200		110	66.5-118	4.60	21	
Total TPH C6-C28	431	10.0	mg/kg	400		108	77.6-123	4.11	18.5	
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	49.1-148			
Batch 4020148 - General Prep - Organics										
Blank (4020148-BLK1)				Prepared: (	)1-Feb-24 A	Analyzed: 0	2-Feb-24			
GRO C6-C10	ND	10.0	mg/kg							

			1	~		
GRO C6-C10	ND	10.0 m	g/kg			
DRO >C10-C28	ND	10.0 m	g/kg			
EXT DRO >C28-C36	ND	10.0 m	g/kg			
Surrogate: 1-Chlorooctane	42.9	m	g/kg 50.0	85.9	48.2-134	
Surrogate: 1-Chlorooctadecane	48.5	m	g/kg 50.0	97.1	49.1-148	

## Cardinal Laboratories

## \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project Number:	AIRSTREAM 603-605 19397 ROBBIE RUNNELS	Reported: 13-Feb-24 15:48
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## Petroleum Hydrocarbons by GC FID - Quality Control

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4020148 - General Prep - Organics										
LCS (4020148-BS1)				Prepared: (	01-Feb-24 A	nalyzed: 0	2-Feb-24			
GRO C6-C10	185	10.0	mg/kg	200		92.6	66.4-123			
DRO >C10-C28	182	10.0	mg/kg	200		91.0	66.5-118			
Total TPH C6-C28	367	10.0	mg/kg	400		91.8	77.6-123			
Surrogate: 1-Chlorooctane	43.6		mg/kg	50.0		87.3	48.2-134			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.3	49.1-148			
LCS Dup (4020148-BSD1)				Prepared: (	01-Feb-24 A	nalyzed: 0	2-Feb-24			
GRO C6-C10	178	10.0	mg/kg	200		89.2	66.4-123	3.75	17.7	
DRO >C10-C28	194	10.0	mg/kg	200		97.0	66.5-118	6.41	21	
Total TPH C6-C28	372	10.0	mg/kg	400		93.1	77.6-123	1.41	18.5	
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.5	48.2-134			
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.3	49.1-148			

#### **Cardinal Laboratories**

## \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Nan	and a odicty	Solutio	ons,	Inc				-	20	1	1994	D	111 70		100										
Project Manag	Jer: Robbie Runnels									0, #	1000	DI	ILL TO		2				AN	ALY	SIS I	REQU	EST		
Address: 26	17 West Marland								-		-				_							T	T	T	1
City: Hobbs	State: NM	1 7	in	882	40				Co	mp	any		Et	ech		1									
Phone #: (5)	75) 264-9884 Fax #:	. 2	.ıp.	002	.40			_	Att	tn:			Robbie R	unnels											
Project #: 19	207		_						Ad	dres	SS:														
	Airstream 603-605	wner:		Perr	mian	Res	our	ces	Cit	y:					1	1									
									Sta	te:			Zip:			ε	l @								
Sampler Name	on: GPS: (32.38642, -103.42057)								Pho	one	#:				Chloride	TPH (8015M)	BTEX (8021B)								
FOR LAB USE ONLY	Aaron Rios								Fax						<u>ا</u>	8									
			T	Т		MAT	TRIX		-	PRE	SER	۲V.	SAMPL	ING	l °	1	H H								
4240494 Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	# CONTAINEDS	GROUNDWATED	WASTEWATER	SOIL		SLUDGE	OTHER :	ID/BASE:	DTUEN COOL	UTHEK :							×						
1	DEF-1 @ 6"		1.2		5 3		5	S	5	AC	5 8	5	DATE	TIME											
	DEF-2 @ 6"	G	-	-	-	X		_	+	)	X		1/31/24		Х	х	X			-		_			
	DEF-3 @ 6"	G	+		-	X	_	-	+	)	(		1/31/24		Х	Х	X							 	
Ÿ	DEF-4 @ 6"	G	-	⊢	-	X			+	)	(		1/31/24		Х	х	х							 	_
	DEF-5 @ 6"	G	1	⊢		X	-	_	+	>	(		1/31/24		Х	х	Х								
	DEF-6 @ 6"	G	$\frac{1}{1}$	⊢		X	_	-	╀	X	-	┢	1/31/24		х	Х	Х								
71	DEF-7 @ 6"	G		⊢		X	-	-	+	X	(	L	1/31/24		Х	х	Х								
8	DEF-8 @ 6"	G	1	+		Х	-		⊢	X	-	Ŀ	1/31/24		X	X	х								
	DEF-1 @ 6'-R	G	1			Х	-	-	+	X		Ŀ	1/31/24		X	X	Х						_		
	)EF-2 @ 2'	G	1			X	+	-	⊢	X	-		1/31/24		Х	Х	х							-	
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Page 40 of 42

Page 100 of 135



Page 101 of 135

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Name: Etech Environmental & Project Manager: Robbie Runnels	oalety St	JULIO	ns,	Inc.							BI	ILL TO	0					ANALYSIS DECUEST
Address: 2617 West Marland									P.O.	. #:						T	T	ANALYSIS REQUEST
City: Hobbs									Com	pany		E	tech	2	1	1		
Phone #: (575) 264 0004	te: NM	Zi	<b>p</b> : 8	3824	40			1	Attn	:		Robbie R	unnels			1		
Project #: 10207								4	Add	ress:				-				
FIO	ject Own	er:	P	Perm	nian F	Reso	urce		City:		-							
Project Name: Airstream 603-605									tate			Zip:		-		ŝ	<b>a</b>	
Project Location: GPS: (32.38642, -103.42	057)									ne #:		Lip.		-	Chloride	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY									ax #			-		_	hlor	80	8	
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// DEF-3 @ 3'-R		G	1	Γ		X				X		1/31/24		-				
12 DEF-4 @ 4'-R		G	1			x			$\vdash$	X		1/31/24		+	X	Х	Х	
i 3 DEF-5 @ 8'-R 14 DEF-6 @ 5'-R		G	1			х				X		1/31/24		+	X	X	Х	
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		G	1			X				X		1/31/24		-	<del>x</del>	X	X	
// DEF-8 @ 1' /7 SP-1 @ 2'-R		G	1		)	X				X		1/31/24		-	x	X X	X X	
18 SP-2 @ 3'-R		G	1		)	X				X	1	1/31/24		-	x	x	x	
19 SP-3 @ 2'-R		G	1		)	X				х	1	1/31/24		-	x	x	x	
20 SP-4 @ 10'-P		G	1	-	X					x		1/31/24			x	x	x	
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	ARDINAL LAB( 101 East Marland, (575) 393-2326 F	Hobbs, NM 8 AX (575) 393	824	6										<u>CHAI</u>								LIS	<u>15 R</u>	EQU	EST
Company Nan Project Manag	ne: Etech Environmen	ntal & Safety So	lutio	ns, I	Inc.				8	22	20	R	ILL TO	2	TOM: T										
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	617 West Marland										pan				-										
City: Hobbs		State: NM	Zi	p: 8	824	0				ttn:		iy		ech	-										l .
	75) 264-9884	Fax #:											Robbie R	unnels	-										
	0397	Project Own	er:	Ρ	ermi	an F	lesou	Irce			ess	:			1										
	Airstream 603-605								1	ity:					1										
Project Location	on: GPS: (32.38642, -	103.42057)								ate			Zip:		8	5M	11								
Sampler Name	: Aaron Rios		-			-					e #:				Chloride	TPH (8015M)	BTEX (8021R)								
FOR LAB USE ONLY			Т	Г	T	A	ATR	IX	Fa	x #:		DI			ਤ	I F	1								
FUDYGU			Ч.	Ľ						FR	ESE	RV.	SAMPL	ING		1 1									
Lab I.D.	Sample I.	D.	G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	MASTEWATER		SLUDGE	ER :	ACID/BASE:	ICE / COOL	ER :													
21	WH-1 @ Surf		$\sim$	Ŭ #	GRO	MAS	OIL SUIL	SLUI	OTHER	ACID	ICE /	OTHER	DATE	TIME											
0.0	WH-2 @ Surf		G	1		1	X				Х		1/31/24		x	х	X	+							
02	NH-1 @ Surf		G	1		)	<				Х		1/31/24		X	X	x	+							
Out	NH-2 @ Surf		G	1		)	-				х		1/31/24		X	X	x	-							
	SH-1 @ Surf		G	1		)	-				Х		1/31/24		х	Х	X	+		7					
	SH-20 Surf		G	1		>				-	X		1/31/24		х	Х	X	1							
27 :	SH-200 1'		G G	-		X			-	_	X		1/31/24		Х	х	Х	1							
28 E	EH-1 @ Surf		G		-	X			+	-	X	+	1/31/24		Х	X	Х				_				
¥ X E	EH-1'@1'			1	-	X		-	+		X	+	1/31/24		Х	х	Х								
× 30 E	EH-2 @ Surf		-	-	-	X		-	+		X	+	1/31/24		Х	X	Х								
es. All claims including	Damages. Cardinal's liability and client's those for negligence and any other caus dinal be liable for incidental or consequence	exclusive remedy for any	claim a	rising	whethe	r based	in cont	ract or	tort, sh	) all be	X limite	d to th	1/31/24		х	X	Х								
as or successors arising	Out of or related to the	ntal damages, including w	ithout li	nitatio	uniess n, busi	made i ness int	n writing erruptio	and re	eceived s of use	l by Ca e, or lo	ardina oss of	l within profits	a 30 days after o	completion of the	e applicable										
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March 19, 2024

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: AIRSTREAM 603-605

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 15:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	03/14/2024	Sampling Date:	03/13/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397 - PERMIAN RESOURCES	Sample Received By:	Dionica Hinojos
Project Location:	GPS: (32.38642, -103.42057)		

## Sample ID: SP 1 @ 3' (H241337-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.28	114	2.00	0.634	
Toluene*	<0.050	0.050	03/15/2024	ND	2.23	112	2.00	0.509	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.21	110	2.00	0.796	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.44	107	6.00	0.916	
Total BTEX	<0.300	0.300	03/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2024	ND	201	100	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/16/2024	ND	208	104	200	4.75	
EXT DRO >C28-C36	<10.0	10.0	03/16/2024	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.1	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	03/14/2024	Sampling Date:	03/13/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397 - PERMIAN RESOURCES	Sample Received By:	Dionica Hinojos
Project Location:	GPS: (32.38642, -103.42057)		

## Sample ID: DEF 1 @ 12' (H241337-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.22	0.500	03/15/2024	ND	2.28	114	2.00	0.634	
Toluene*	46.5	0.500	03/15/2024	ND	2.23	112	2.00	0.509	
Ethylbenzene*	38.3	0.500	03/15/2024	ND	2.21	110	2.00	0.796	
Total Xylenes*	119	1.50	03/15/2024	ND	6.44	107	6.00	0.916	
Total BTEX	206	3.00	03/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	148	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2540	50.0	03/16/2024	ND	231	115	200	8.20	QM-07
DRO >C10-C28*	7230	50.0	03/16/2024	ND	206	103	200	6.67	QM-07
EXT DRO >C28-C36	858	50.0	03/16/2024	ND					
Surrogate: 1-Chlorooctane	240	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	155	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	03/14/2024	Sampling Date:	03/13/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397 - PERMIAN RESOURCES	Sample Received By:	Dionica Hinojos
Project Location:	GPS: (32.38642, -103.42057)		

### Sample ID: DEF 3 @ 12' (H241337-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.17	0.500	03/15/2024	ND	2.28	114	2.00	0.634	
Toluene*	50.5	0.500	03/15/2024	ND	2.23	112	2.00	0.509	
Ethylbenzene*	36.0	0.500	03/15/2024	ND	2.21	110	2.00	0.796	
Total Xylenes*	110	1.50	03/15/2024	ND	6.44	107	6.00	0.916	
Total BTEX	200	3.00	03/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	143	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2590	50.0	03/16/2024	ND	231	115	200	8.20	
DRO >C10-C28*	7160	50.0	03/16/2024	ND	206	103	200	6.67	
EXT DRO >C28-C36	914	50.0	03/16/2024	ND					
Surrogate: 1-Chlorooctane	237	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	03/14/2024	Sampling Date:	03/13/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397 - PERMIAN RESOURCES	Sample Received By:	Dionica Hinojos
Project Location:	GPS: (32.38642, -103.42057)		

### Sample ID: DEF 4 @ 5' (H241337-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.18	109	2.00	2.49	
Toluene*	0.152	0.050	03/15/2024	ND	2.16	108	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.08	104	2.00	3.31	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.23	104	6.00	3.27	
Total BTEX	<0.300	0.300	03/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	231	115	200	8.20	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	206	103	200	6.67	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					
Surrogate: 1-Chlorooctane	79.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	03/14/2024	Sampling Date:	03/13/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397 - PERMIAN RESOURCES	Sample Received By:	Dionica Hinojos
Project Location:	GPS: (32.38642, -103.42057)		

## Sample ID: DEF 5 @ 9' (H241337-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.18	109	2.00	2.49	
Toluene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.08	104	2.00	3.31	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.23	104	6.00	3.27	
Total BTEX	<0.300	0.300	03/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	231	115	200	8.20	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	206	103	200	6.67	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	03/14/2024	Sampling Date:	03/13/2024
Reported:	03/19/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397 - PERMIAN RESOURCES	Sample Received By:	Dionica Hinojos
Project Location:	GPS: (32.38642, -103.42057)		

### Sample ID: DEF 8 @ 2' (H241337-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2024	ND	2.18	109	2.00	2.49	
Toluene*	<0.050	0.050	03/15/2024	ND	2.16	108	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/15/2024	ND	2.08	104	2.00	3.31	
Total Xylenes*	<0.150	0.150	03/15/2024	ND	6.23	104	6.00	3.27	
Total BTEX	<0.300	0.300	03/15/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/18/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/15/2024	ND	231	115	200	8.20	
DRO >C10-C28*	<10.0	10.0	03/15/2024	ND	206	103	200	6.67	
EXT DRO >C28-C36	<10.0	10.0	03/15/2024	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

### (575) 393-2326 FAX (575) 393-2476

Company Nam	ompany Name: Etech Environmental & Safety Solutions, Inc.			2	BILL TO ANALYSIS REQUEST													
Project Manag									P.	0. #			22 70	24444	1	1	T	ANALYSIS REQUEST
Address: 26	17 West Marland							-	F				Den in 1		-			
City: Hobbs		State: NM	Zir	o: 88	3240	)			Company Permian Resources			1						
Phone #: (57	(575) 264-9884 Fax #:						tn:			Nontgomer	y Floyd	1						
Project #: 19						ddre	SS:				1							
Project Name:	Airstream 603-605	r toject Owne		1.6	5111110		esou	irces	Ci	ty:								
	on: GPS: (32.38642, -	102 42057)							St	ate:			Zip:		e e	5M	21E	
	Martin Sepulveda	103.42057)							Pł	none	#:				Chloride	TPH (8015M)	BTEX (8021B)	
FOR LAB USE ONLY			_	_	_				Fa	x #:					ਤ	Ŧ	Ш	
H241337 Lab I.D.	Sample I	.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	TEWATER		DGE	OTHER :	SE	ICE (COOL)	OTHER : A	SAMPI	TIME		μ.	BT	
	SP 1 @ 3'		G	1		1	x				Х		3/13/24		Х	Х	х	
3	DEF 1 @ 12'		G	1			X				Х		3/13/24		Х	Х	X	
	DEF 3 @ 12'		G	1		1	X				Х		3/13/24		Х	Х	Х	
5	DEF 4 @ 5'		G	1		)	x				Х		3/13/24		Х	Х	Х	
	DEF 5 @ 9'		G	1		)	K				Х	4	3/13/24		х	Х	Х	
- P	DEF 8 @ 2'	-	G	1		)	(				Х	4	3/13/24		х	Х	Х	
						_	_				_	4						
				$\square$			-				_	4						
						_	-				_	∔						
service. In no event shall Ca	d Damages. Cardinal's liability and clien og those for negligence and any other c urdinal be liable for incidental or conseq g out of or related to the performance of	uental damages including	without ardinal,	limital	u unes	s made siness i f whethe	in write	ng and	receiv	red by (	Cardin	al with	hin 30 days afte	r completion of the lient, its subsidiarie asons or otherwise	e applicabl es, e.			
Relinquished By	the	<u>3-14-24</u> Time: <u>15-05</u> Date:	6	21	ed E	T	~		_	-				Phone Res Fax Result REMARKS	:	Yes Yes		No Add'I Phone #: No Add'I Fax #:
Delivered By: Sampler - UPS			प. 14		c	ample ool Ye	Inta	ct Yes	on	c		CKEI		Please en	nail co	opy of	COC	and results to pm@etechenv.com.
FORM-00 Revision				Contraction of the local division of the loc					bal o	han	iges	5. P	lease fax	written ch	anges	to 57	5-393	-2476

Page 111 of 135



July 22, 2024

JOEL LOWRY Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS, NM 88240

RE: AIRSTREAM 603-605

Enclosed are the results of analyses for samples received by the laboratory on 07/17/24 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN RESOURCES (32.38642,-103.42		

### Sample ID: BH @ 20' (H244258-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/17/2024	ND	480	120	400	6.90	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	95.1	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	23.0	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	115 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	6 49.1-14	8						

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### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN RESOURCES (32.38642,-103.42		

### Sample ID: BH @ 24' (H244258-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	61.0	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	12.9	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	115 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

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\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	07/17/2024	Sampling Date:	07/16/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	AIRSTREAM 603-605	Sampling Condition:	Cool & Intact
Project Number:	19397	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN RESOURCES (32.38642,-103.42		

### Sample ID: BH @ 28' (H244258-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2024	ND	2.00	100	2.00	0.282	
Toluene*	<0.050	0.050	07/17/2024	ND	1.98	98.9	2.00	0.625	
Ethylbenzene*	<0.050	0.050	07/17/2024	ND	1.98	99.1	2.00	0.923	
Total Xylenes*	<0.150	0.150	07/17/2024	ND	5.82	97.0	6.00	1.21	
Total BTEX	<0.300	0.300	07/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2024	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/17/2024	ND	191	95.3	200	0.589	
DRO >C10-C28*	64.8	10.0	07/17/2024	ND	193	96.5	200	0.820	
EXT DRO >C28-C36	13.6	10.0	07/17/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126 9	% 49.1-14	8						

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### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

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	,
(575) 393-2326	FAX (575) 393-2476

Company Nam	e: Etech Environme	ental & Safety Solu	ition	s, Ir	IC.				22		B	ILL TO		2					EQUEST	rage	e 1 of 1
Project Manag	er: Joel Lowry								P.0.	. #:			at an	1	T-		ANALT	SIS RI	EQUES	·	T
Address: 26	17 West Marland								Con	npar	nν	Permian F	Pesourcos	1							
City: Hobbs		State: NM					Attn			Montgomer											
Phone #: (5	75) 264-9884	Fax #:					Add			Montgomer	y Floyd	1									
Project #: 19	397	Project Owne	r:	Pe	ermia	n Res	ouro	-	City	_				1							
Project Name:	Airstream 603-605					-			State			Zip:			Î	â					
Project Location	on: 32.38642, -103.4	2057							Pho		i.	Zip.		ride	0151	021					
Sampler Name	: Robbie Runnels							-	Fax					Chloride	TPH (8015M)	BTEX (8021B)					
FOR LAB USE ONLY			Г	Г		MA	TRIX	_	-	And in case of the local division of the loc	ERV	SAMPL	ING	°	1 d	3TE					
Lab I.D. H <i>2442</i> 58	Sample	I.D.	G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER SOIL	OIL	SLUDGE	OTHER : ACID/RASE:		OTHER :	DATE	THE								
1	BH @ 20'		G	#	0	S O X	0	S		X		7/16/24	TIME	×							
	BH @ 24'		G	1		X		-	+	X	-	7/16/24		X X	X X	X					
3	BH @ 28'		G	1		X		-		X	-	7/16/24		x	x	x					
									1					Ê	<u> </u>						
				$\vdash$					+	-											
				$\vdash$				-	+	-											-
EASE NOTE: Liability and	d Damages. Cardinal's liability and cl ng those for negligence and any other	ent's exclusive remedy for an	y claim	arisin	g wheth	er based i	n contr	act or to	ort, sha	all be lin	mited to	the amount pai	d by the client for th	he							
vice. In no event shall C	ardinal be liable for incidental or cons-	autontal damages including	centeu	waive	u unies:	made in	writing	and red	ceived l	by Can	dinal wi	thin 30 days afte	r completion of the	e applicabl	le						
	thh	7-17-24	Ree	ceiv	ed B	y:				pon an		above stated res	Phone Res Fax Result REMARKS	sult:	□ Yes □ Yes						
elinquished By	:	Date:	Red	ceiv	ed B	y:		a	d	20	q	In									
		Time:																			
elinguished B	ng out of or related to the performance	Date: 7-17-24 Time: Date: Date:	Red	regard	ed B	whether s y:	rruption uch cla	ns, loss iim is ba	of use, ased up	, or los	s of pro y of the	fits incurred by c above stated re-	lient, its subsidiarie asons or otherwise Phone Res Fax Result	es, a. sult:	□ Yes						

Received by OCD: 9/16/2024 2:13:58 PM

# Appendix E NMOCD Correspondence

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	nAPP2320839776
District RP	
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible Party: Permian Resources	OGRID: 372165
Contact Name: Montgomery Floyd	Contact Telephone: 432-425-8321
Contact email: montgomery.floyd@permianres.com	Incident # nAPP 2.320839776
Contact mailing address: 300 N. Marienfeld Suite 10000,	
Midland, Tx. 79701	

### Location of Release Source

Latitude 32.38641\_

Longitude -103.42056\_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Airstream CTB 2	Site Type: Production Facility
Date Release Discovered: 7/17/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
0	13	228	34E	Lea

Surface Owner: 🛛 State 🗌 Federal 🗌 Tribal 🗌 Private (*Name: Market State*)

## Nature and Volume of Release

	(s) Released (Select all that apply and attach calculations or specific	
Crude Oil	Volume Released (bbls) 78	Volume Recovered (bbls) 70
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
3	Is the concentration of dissolved chloride in the	🗌 Yes 🖾 No
	produced water >10,000 mg/l?	
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:

Corrosion led to release of fluid from production piping. The site will be remediated to state standards. Volumes were justified using the attached soil impact calculation tool.

Form C-141	State of New		Incident ID	nAPP232089776
Rage 2	Oil Conservation	n Division	District RP	
6			Facility ID	
Page 2			Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? ⊠ Yes □ No	If YES, for what reason(s) The release exceeded 25 ba		ty consider this a major releas	e?
	notice given to the OCD? By ven by Montgomery Floyd vis		en and by what means (phone ke Bratcher, and SLO ECO.	, email, etc)?
		Initial Response	e	
The responsible	party must undertake the following a	actions immediately unless they	v could create a safety hazard that wo	uld result in injury
$\square$ The source of the rele	ease has been stopped.			
The impacted area ha	as been secured to protect hun	man health and the enviro	onment	
	*			ant devices
\			orbent pads, or other containm	ent devices.
_	ecoverable materials have been d above have <u>not</u> been undert		appropriately.	
	a narrative of actions to date		n immediately after discovery	of a release. If remediation
within a lined containment I hereby certify that the information regulations all operators are public health or the environment	rmation given above is true and required to report and/or file cer ment. The acceptance of a C-14	(a) NMAC), please attact complete to the best of my rtain release notifications an 1 report by the OCD does n	ch all information needed for knowledge and understand that p id perform corrective actions for ot relieve the operator of liability	ed or if the release occurred closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have
within a lined containment I hereby certify that the infor- regulations all operators are public health or the environment failed to adequately investige addition, OCD acceptance of and/or regulations.	rmation given above is true and required to report and/or file cer ment. The acceptance of a C-14 gate and remediate contamination f a C-141 report does not relieve	(a) NMAC), please attact complete to the best of my rtain release notifications an 1 report by the OCD does n in that pose a threat to ground	ch all information needed for knowledge and understand that p id perform corrective actions for	ed or if the release occurred closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In
<ul> <li>within a lined containment</li> <li>I hereby certify that the information regulations all operators are public health or the environment</li> <li>failed to adequately investigned addition, OCD acceptance of and/or regulations.</li> <li>Printed Name: Montgometer</li> </ul>	rmation given above is true and required to report and/or file cer ment. The acceptance of a C-14 gate and remediate contamination f a C-141 report does not relieve	(a) NMAC), please attact complete to the best of my rtain release notifications an 1 report by the OCD does n in that pose a threat to ground	ch all information needed for knowledge and understand that p id perform corrective actions for ot relieve the operator of liability dwater, surface water, human hea ity for compliance with any other	ed or if the release occurred closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In
<ul> <li>within a lined containment</li> <li>I hereby certify that the information regulations all operators are public health or the environment</li> <li>failed to adequately investigned addition, OCD acceptance of and/or regulations.</li> <li>Printed Name: Montgometer</li> </ul>	rmation given above is true and required to report and/or file cer ment. The acceptance of a C-14 gate and remediate contamination f a C-141 report does not relieve	i)(a) NMAC), please attact complete to the best of my rtain release notifications an 1 report by the OCD does n in that pose a threat to ground the operator of responsibil Title: Environmental N	ch all information needed for knowledge and understand that p id perform corrective actions for ot relieve the operator of liability dwater, surface water, human hea ity for compliance with any other	ed or if the release occurred closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In
<ul> <li>within a lined containment</li> <li>I hereby certify that the information regulations all operators are public health or the environment</li> <li>failed to adequately investigned addition, OCD acceptance of and/or regulations.</li> <li>Printed Name: Montgometer</li> </ul>	rmation given above is true and required to report and/or file cer ment. The acceptance of a C-14 gate and remediate contamination f a C-141 report does not relieve ery Floyd	i)(a) NMAC), please attact complete to the best of my rtain release notifications an 1 report by the OCD does n in that pose a threat to ground the operator of responsibil Title: Environmental N	ch all information needed for $\frac{1}{2}$ knowledge and understand that p ad perform corrective actions for ot relieve the operator of liability dwater, surface water, human hea ity for compliance with any other Manager 7-27-23	ed or if the release occurred closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In
within a lined containment I hereby certify that the infor regulations all operators are public health or the environment failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Montgoment Signature:	rmation given above is true and required to report and/or file cer ment. The acceptance of a C-14 gate and remediate contamination f a C-141 report does not relieve ery Floyd	i)(a) NMAC), please attact complete to the best of my rtain release notifications an 1 report by the OCD does n in that pose a threat to ground the operator of responsibil Title: Environmental N Date:	ch all information needed for $\frac{1}{2}$ knowledge and understand that p ad perform corrective actions for ot relieve the operator of liability dwater, surface water, human hea ity for compliance with any other Manager 7-27-23	ed or if the release occurred closure evaluation. ursuant to OCD rules and releases which may endanger should their operations have lth or the environment. In

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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 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	nAPP2329127081
District RP	
Facility ID	
Application ID	

# **Release Notification**

## **Responsible Party**

Responsible Party: Permian Resources	OGRID: 372165
Contact Name: Montgomery Floyd	Contact Telephone: 432-425-8321
Contact email: montgomery.floyd@permianres.com	Incident #
Contact mailing address: 300 N. Marienfeld Suite 10000, Midland, Tx. 79701	

### Location of Release Source

Latitude 32.386402\_

Longitude -103.420455 (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Airstream CTB 2	Site Type: Production Facility
Date Release Discovered: 10/16/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
Р	13	22S	34E	Lea

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) 21	Volume Recovered (bbls) 18
Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 4
	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:

Site glass on separator failed resulting in the release of hydrocarbons & produced water to soil. The site will be remediated to state standards. Volumes were justified using the attached soil impact calculation tool.

rm C-141	State of New Mexico	Incident ID	nAPP2329127081
Oil Conservation Division	Oil Conservation Division	District RP	
		Facility ID	
orm C-141 ge 2		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 par The release exceeded 25 barrels volume.		
	otice given to the OCD? By whom? To whom? Wh ovided to OCDenviro & Mike Bratcher, by Montgon		
	Initial Respons	se	
The responsible	party must undertake the following actions immediately unless the	ey could create a safety hazard that woul	d result in injury
$\square$ The source of the relation	ease has been stopped.		
_		an an an t	
	is been secured to protect human health and the envir		
Released materials ha	ave been contained via the use of berms or dilag abs	orbent nade or other containmer	t downood
	ave been contained via the use of berms or dikes, abs ecoverable materials have been removed and manage		it devices.

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

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

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

Printed Name: Montgomery Floyd

Title: Environmental Manager

Date: 10-18-23

email: montgomery.floyd@permianres.com

Telephone: 432-425-8321

**OCD Only** 

Signature:

Received by: <u>Shelly Wells</u> Date: <u>10/18/2023</u>

orm C-141 age 3

State of New Mexico Oil Conservation Division

Incident ID	nAPP2329127081
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?	(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 <b>not</b> 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 <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps

9/1/6/2/024-2818/58

Laboratory data including chain of custody

the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation of a release are contained volume of material to be remediated, the proposed remediation technique, proposed sampling plan nd methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141 Page 4	State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	nAPP2329127081
regulations all operators public health or the env failed to adequately inv addition, OCD acceptan and/or regulations.	e information given above is true and complete to the s are required to report and/or file certain release noti vironment. The acceptance of a C-141 report by the C restigate and remediate contamination that pose a three nee of a C-141 report does not relieve the operator of	ifications and perform co DCD does not relieve the eat to groundwater, surfac responsibility for compl	rrective actions for relea operator of liability sho ce water, human health iance with any other fed	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
Printed Name:	· · · · · · · · · · · · · · · · · · ·	Title:		<u></u>
Signature:		Date:		
email:		Telephone:		
OCD Only				
Received by:		Date:		

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State of New Mexico Oil Conservation Division

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

Incident ID	nAPP2329127081
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Scaled sitemap	ption of proposed remediation technique with GPS coordinates showing delineation p me of material to be remediated	points		
Closure criteria	a is to Table 1 specifications subject to 19.15 lule for remediation (note if remediation plan			approval is required)
Deferral Requests	Only: Each of the following items must be	e confirmed as p	art of any request fo	or deferral of remediation.
Contamination deconstruction.	must be in areas immediately under or aroun	nd production eq	uipment where reme	diation could cause a major facility
Extents of cont	amination must be fully delineated.			
Contamination	does not cause an imminent risk to human h	ealth, the environ	nment, or groundwat	er.
rules and regulation which may endang liability should the surface water, hum	t the information given above is true and corns all operators are required to report and/or er public health or the environment. The acc ir operations have failed to adequately invest an health or the environment. In addition, O ompliance with any other federal, state, or lo	file certain releas ceptance of a C-1 cigate and remedi CD acceptance of	se notifications and p 41 report by the OC ate contamination th of a C-141 report doe	berform corrective actions for releases D does not relieve the operator of at pose a threat to groundwater,
Printed Name:	a final and the second second	Title:	dha na hughear 6	digni goʻra di san son son son son son son son son son so
Signature:		Date:		
email:		Telephor	ne:	
OCD Only				
Received by:		Date:		
Approved	Approved with Attached Condition	s of Approval	Denied	Deferral Approved
Signature:		Date:		
Received by OCD: 9/16/2024.2/18/58.PM4-				
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Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	nAPP2329127081
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.

<u>Closure Report Attachment Checklist</u> : 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 must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certal may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name:	Title:
Signature:	_ Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party emediate contamination that poses a threat to groundwater, surface arty of compliance with any other federal, state, or local laws and	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.

 Closure Approved by:
 \_\_\_\_\_\_\_

 Printed Name:
 \_\_\_\_\_\_\_

 Title:
 \_\_\_\_\_\_\_

NAPP2329127081

### <u>Area #1</u>

	Length	Width	Depth Fee	t & Inches	Calc Volume	e - BBLS
Dimensions	48	5	0	6	21.37	
					<u> </u>	
				TOTAL	21.37	
	Length Widt	h _Depth	Feet & Inche	<u>s </u> _Calc Volu	me - BBLS	
Dimensions	48	5	0	6 =C15*D1	5*(E15+(F15/12	2))*0.1781

### <u>Area #2</u>

	Length	Width	Depth Feet	t & Inches	Calc Volume - BBLS
Dimensions	40	3	0	3	5.34
				TOTAL	5.34

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:	
Permian Resources Operating, LLC	372165	
1001 17th Street, Suite 1800	Action Number:	
Denver, CO 80202	276804	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	
CONDITIONS		

Created By Condition scwells None

CONDITIONS

Action 276804

Condition Date 10/18/2023

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

QUESTIONS

Action 383840

QUESTIONS	
Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	383840
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

### QUESTIONS

Incident ID (n#)     nAPP2320839776       Incident Name     NAPP2320839776 AIRSTREAM CTB 2 @ 0       Incident Type     Oil Release	Prerequisites	
	Incident ID (n#)	nAPP2320839776
Incident Type Oil Release	Incident Name	NAPP2320839776 AIRSTREAM CTB 2 @ 0
	Incident Type	Oil Release
Incident Status Deferral Request Received	Incident Status	Deferral Request Received

#### Location of Release Source

Please answer all the questions in this group.	
Site Name	AIRSTREAM CTB 2
Date Release Discovered	07/17/2023
Surface Owner	State

#### Incident Details

Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο
Has this release endangered or does it have a reasonable probability of endangering public health	Νο
Has this release substantially damaged or will it substantially damage property or the environment	Νο
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	r the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Separator   Crude Oil   Released: 78 BBL   Recovered: 70 BBL   Lost: 8 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

**QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	383840
Γ	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Initial Response

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19 15 27 NMAC (05/25/2021) venting and/or flaring of natural gas (i e	e gas only) are to be submitted on the C-129 form

True
True
True
True
Not answered.
ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
6

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

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

I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager
	Email: montgomery.floyd@permianres.com
	Date: 09/16/2024

QUESTIONS, Page 2

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

**QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	383840
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date. What is the shallowest depth to groundwater beneath the area affected by the

release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

### Remediation Plan

Desurgations a severalistics	n lan annuar (al suith this as donais sin a	
1 9	plan approval with this submission	Yes
. ,	0	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	<b>g:</b> (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	1280
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	43200
GRO+DRO	(EPA SW-846 Method 8015M)	37000
BTEX	(EPA SW-846 Method 8021B or 8260B)	632
Benzene	(EPA SW-846 Method 8021B or 8260B)	17.1
Per Subsection B of 19.15.29.11	NMAC unloss the site abaracterization report includes complete	
	nelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
which includes the anticipated tin		01/09/2024
which includes the anticipated tin On what estimated date wi	nelines for beginning and completing the remediation.	
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significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 4

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Phone:(505) 476-3470 Fax:(505) 476-3462			
QUEST	ONS (continued)		
Operator:	<u> </u>	OGRID:	
Permian Resources Operating, LLC		372165	
300 N. Marienfeld St Ste 1000 Midland, TX 79701	,	Action Number:	
Midland, 1X / 9/01	F	383840 Action Type:	
		[C-141] Deferral Request C-141 (C-141-v-Deferral)	
QUESTIONS			
Remediation Plan (continued)			
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district offic	ce no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contamina	ints:	
(Select all answers below that apply.)			
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes		
Which OCD approved facility will be used for <b>off-site</b> disposal	NDBL RECYCLE.	CLOSED [fSL2019032229]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.		
OR is the off-site disposal site, to be used, out-of-state	Not answered.		
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.		
(In Situ) Soil Vapor Extraction	Not answered.		
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.		
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.		
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.		
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.		
OTHER (Non-listed remedial process)	Not answered.		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed eff which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the	report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
I hereby certify that the information given above is true and complete to the best of my k to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report local laws and/or regulations.	ases which may enda adequately investigate	anger public health or the environment. The acceptance of a C-141 report by a end remediate contamination that pose a threat to groundwater, surface	
I hereby agree and sign off to the above statement	Date: 09/16/2024	al Manager ry.floyd@permianres.com	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accorsignificantly deviate from the remediation plan proposed, then it should consult with the division to do			

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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District III

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District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 383840

**QUESTIONS** (continued)

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	383840
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

#### QUESTIONS

Deferral Requests Only				
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	f the following items must be confirmed as part of any request for deferral of remediation.			
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes			
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	To access remaining in-situ contamination PR would need to deconstruct the entire process equipment and storage tank areas.			
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	5650			
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1490			
	iately under or around production equipment such as production tanks, wellheads and pipelines where n may be deferred with division written approval until the equipment is removed during other operations, or when			
Enter the facility ID (f#) on which this deferral should be granted	Airstream 13 CTB 2 [fAPP2220760755]			
Enter the well API (30-) on which this deferral should be granted	Not answered.			
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True			
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,			
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or			
I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager			

Email: montgomery.floyd@permianres.com

Date: 09/16/2024

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District III

Operator:

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

Action Type:

[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS, Page 6

Action 383840

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**QUESTIONS** (continued) OGRID: Permian Resources Operating, LLC 372165 300 N. Marienfeld St Ste 1000 Action Number Midland, TX 79701 383840

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	382291
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/12/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	200

#### Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. Requesting a remediation closure approval with this submission No

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

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

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	383840
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan submitted within this report has been approved as written. The document was inadvertently submitted as a deferral report. Due to this discrepancy, the document has formally been approved as a site characterization/remediation plan and will be reflected as such within the incident page. Permian has 90-days (December 26, 2024) to submit its appropriate or final remediation closure report.	9/27/2024