

# 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

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**

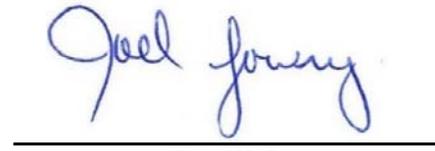
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## 1.0 PROJECT INFORMATION

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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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*‡
60 Feet	Chloride (Cl <sup>-</sup> )	EPA 300.0 or SM4500 Cl B	10,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	-	100
	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)

† 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 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 - 1 @ Surf, SH - 2b @ 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 with the exception of 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 with the exception of soil samples SP-2 @ 3'-R, SP-3 @ 2'-R and SP-4 @ 10'-R, which exhibited concentrations 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.

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 through 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 reseeded 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 will be remediated upon abandoning and decommissioning that facility or during a major facility deconstruction. Etech maintains excavating impacted material adjacent to and beneath the heater treater, horizontal separators, tank battery containment and associated above ground equipment poses a safety risk and will result 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 LIMITATIONS

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

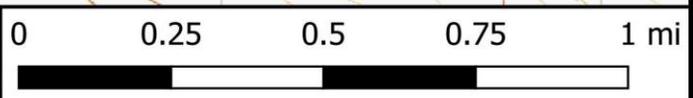
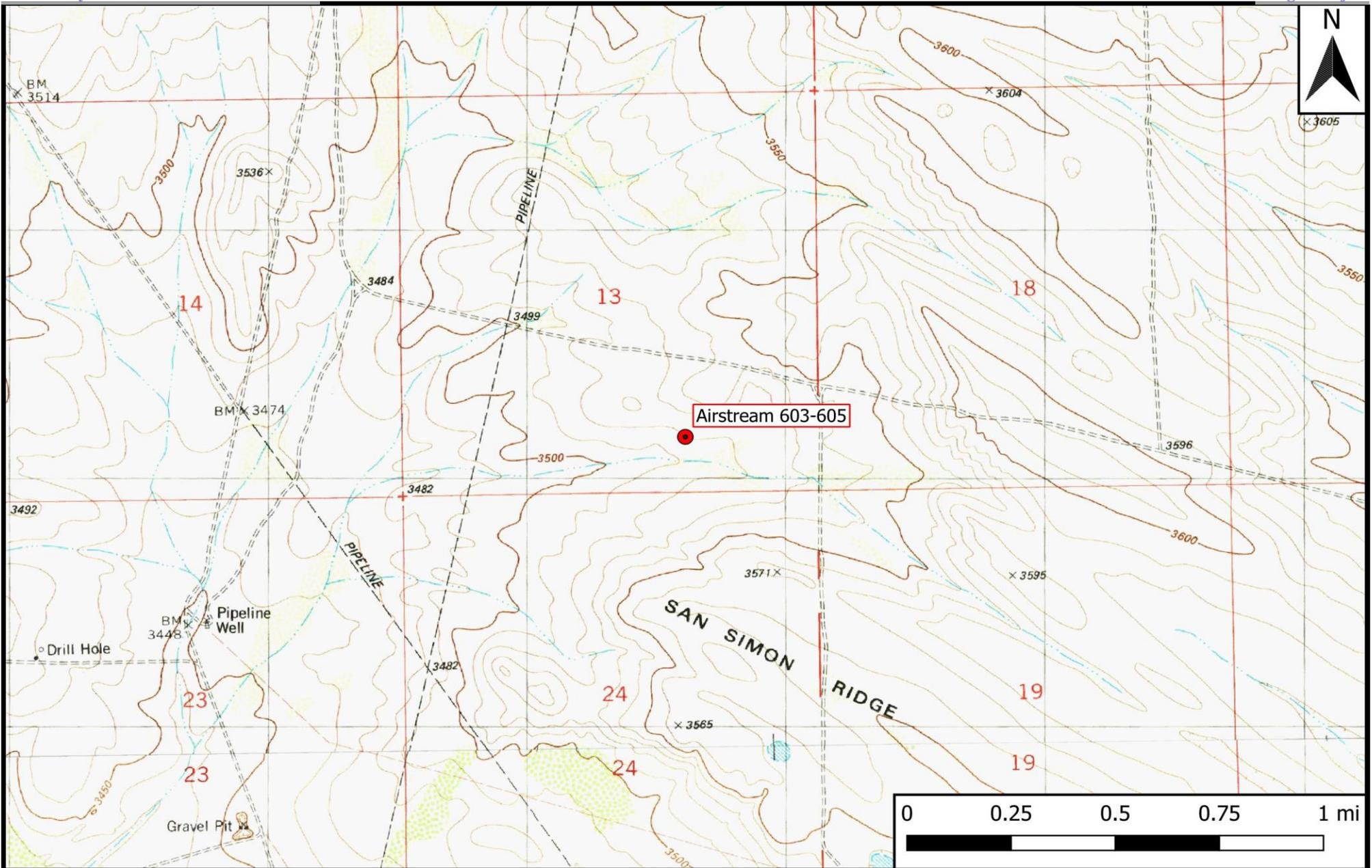
### **New Mexico Energy, Mineral and Natural Resources Department**

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

**Figure 1**  
Site Location Map



**Legend**

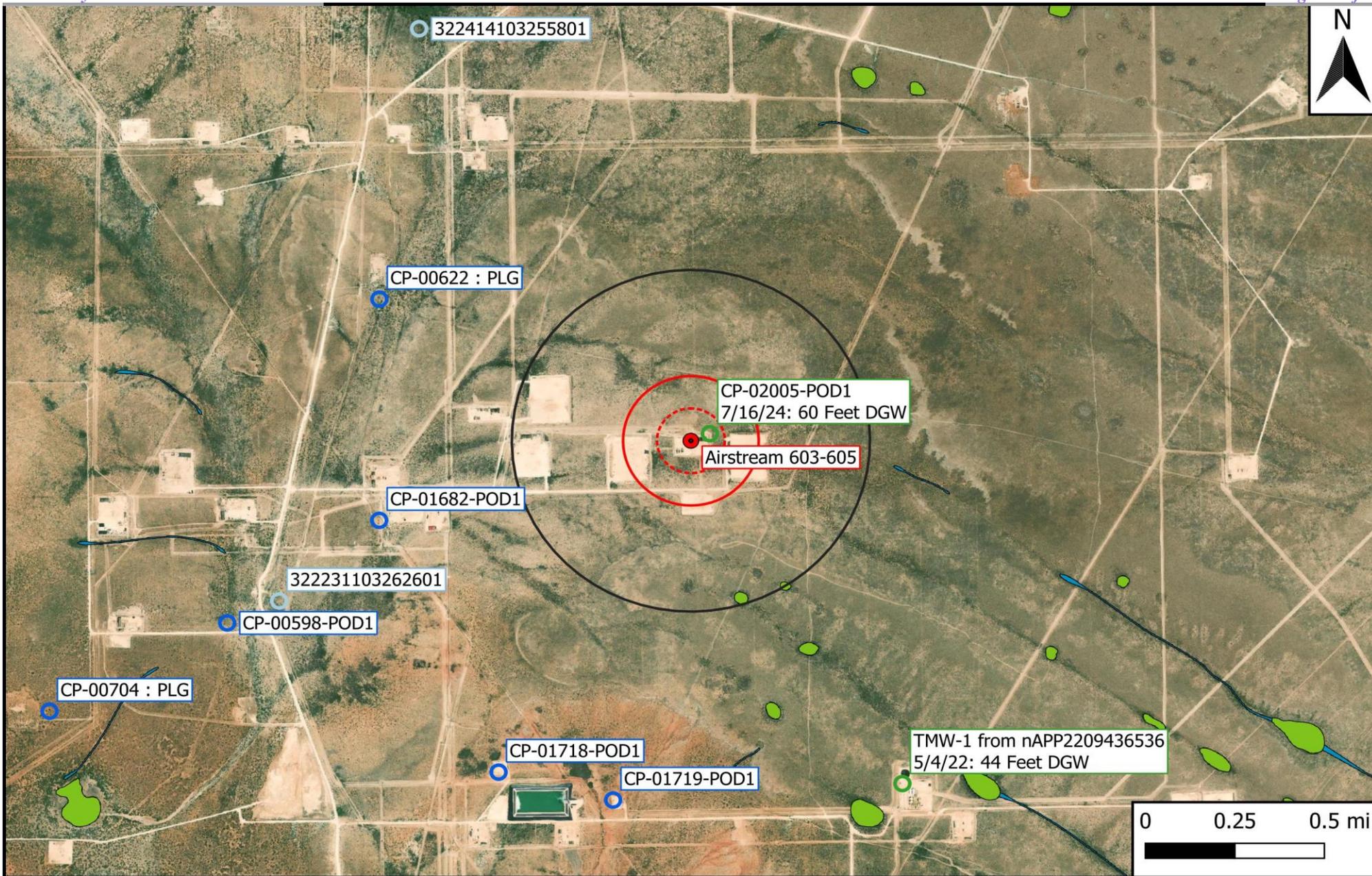
- Site Location

**Figure 1**  
 Topographic Map  
 Permian Resources  
 Airstream 603-605  
 GPS: 32.38642, -103.42057  
 Lea County

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Drafted: mag    Checked: jwl    Date: 11/22/23

**Figure 2**  
Aerial Proximity Map

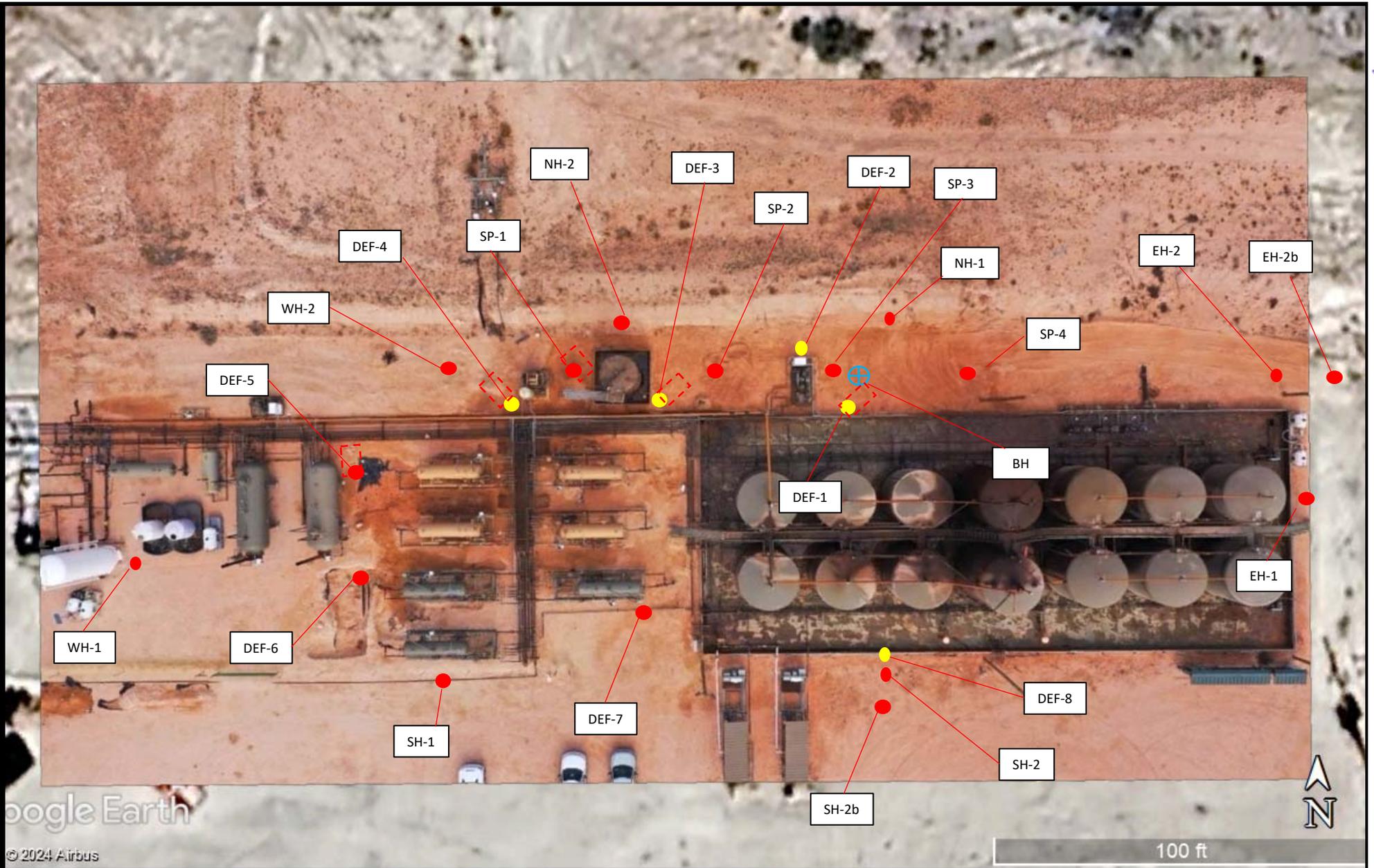


**Figure 2**  
 Aerial Proximity Map  
 Permian Resources  
 Airstream 603-605  
 GPS: 32.38642, -103.42057  
 Lea County

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**Figure 3**  
Site and Sample Location Map



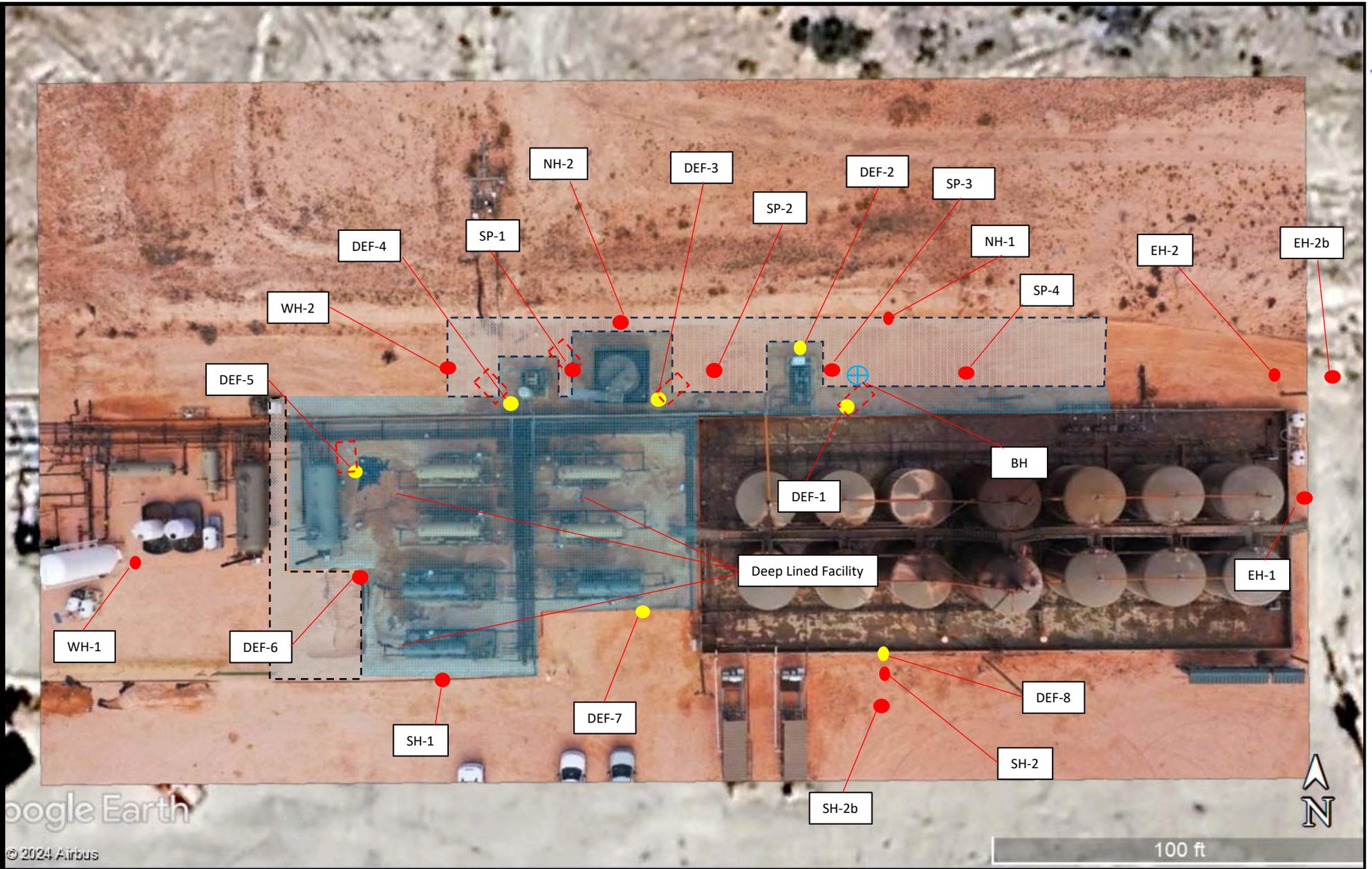
**Legend:**

- Sample Point
- Affected Area
- Deferral Characterization Soil Samples
- Test Trench
- ⊕ Soil Boring

**Figure 3**  
 Site and Sample Location Map  
 Permian Resources  
 Airstream 603-605  
 GPS: 32.38642, -103.42057  
 Lea County

  
 Drafted: jwl    Checked: client    Date: 9/11/24

**Figure 4**  
Proposed Excavation and Deferral Map



**Legend:**

- Sample Point
- - - Test Trench
- ⊕ Soil Boring
- Deferral Characterization Sample
- Proposed Deferral
- Proposed Excavation

**Figure 4**  
 Proposed Excavation and Deferral Map  
 Permian Resources  
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 Lea County

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Drafted: jwl      Checked: client      Date: 9/11/24

**Table 1**  
Concentrations of BTEX, TPH and Chloride in Soil

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

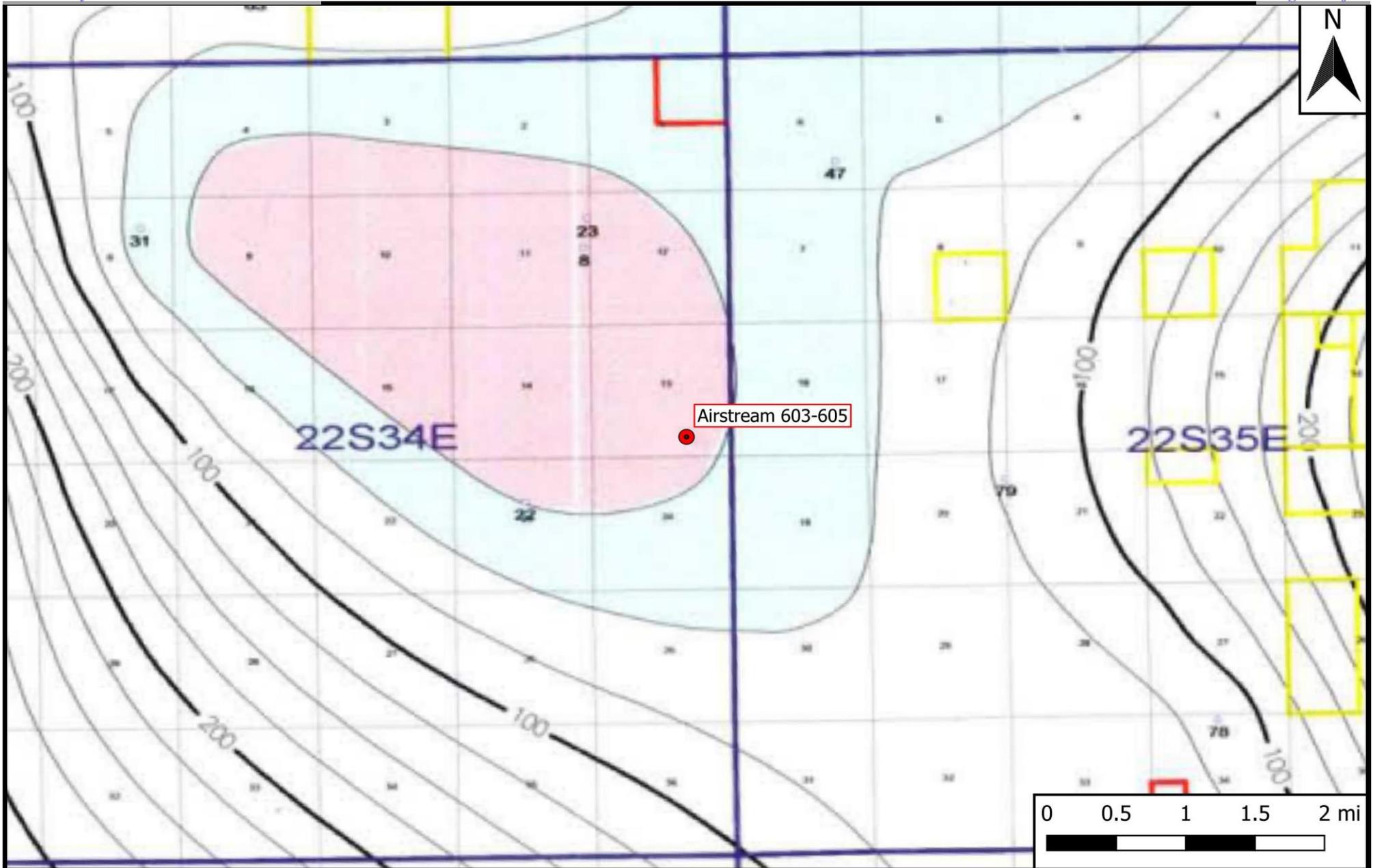
<b>Table 1</b> <b>Concentrations of BTEX, TPH, and Chloride in Soil</b> <b>Permian Resources</b> <b>Airstream 603-605</b> <b>NMOCD Ref. #: nAPP2320839776</b>											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				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

Dash (-): Sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.

**Red:** NMOCD Reclamation Standard exceedance.

**Appendix A**  
Depth to Groundwater Information



Legend

- Site Location

**Figure 5**  
 Inferred Depth to Groundwater Trend Map  
 Permian Resources  
 Airstream 603-605  
 GPS: 32.38642, -103.42057  
 Lea County

**eTECH**  
 Environmental & Safety Solutions, Inc.

Drafted: mag    Checked: jwl    Date: 11/22/23



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S) CP-02005	
	WELL OWNER NAME(S) Permian Resources				PHONE (OPTIONAL) 575-605-3471	
	WELL OWNER MAILING ADDRESS PO 3641				CITY Hobbs	STATE ZIP NM 88241
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 23	SECONDS 12.15	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE -103	25	10.77	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SWSE S-13 T-22S R-34E Lea County NM						

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862	NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC			
	DRILLING STARTED 7/12/24	DRILLING ENDED 7/12/24	DEPTH OF COMPLETED WELL (FT) 65	BORE HOLE DEPTH (FT) 65	DEPTH WATER FIRST ENCOUNTERED (FT) 60			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) Centralizer info below				STATIC WATER LEVEL IN COMPLETED WELL (FT) 60	DATE STATIC MEASURED 7/16/24		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	6	2" SCH 40 FJ Blank	FJ thread 2.38"	2.0	0.19	
	55	65	6	2" SCH 40 FJ 0.10 perf	FJ Thread 2.38"	2.0	0.19	0.10

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2			





### Soil Boring/Temporary Monitor Well TMW-1

<b>Company:</b> Goodnight Midstream Permian, LLC	<b>Well/Borehole ID:</b> TMW-1	<b>Drilling Company:</b> Scarborough Drilling, Inc.
<b>Site:</b> Jalapeno RP	<b>Coordinates (NAD 83):</b> 32.371791,-103.410713	<b>Driller:</b> L. Scarborough
<b>NMOCD Reference #:</b> nAPP2132245281	<b>Drilling Date:</b> 5/4/2022	<b>Drilling Method:</b> Air Rotary
<b>Location:</b> Lea Co., NM	<b>Depth of Boring (ft):</b> 80	<b>Logged By:</b> L. Scarborough
<b>PLSS:</b> U/L "N", Sec. 19, T22S, R35E	<b>Depth to Groundwater (ft):</b> 44	<b>Drafted By:</b> B. Arguijo
	<b>Plugging Date:</b> 6/1/2022	<b>Draft Date:</b> 6/10/2022

<b>Completion:</b> N/A	<b>Casing:</b> 2" PVC	<b>Screen:</b> 0.1" Slotted
------------------------	-----------------------	-----------------------------

**Comments:** Temporary monitor well advanced in northwest corner of production pad.

Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Petroleum Odor	Petroleum Stain	Well Construction	
5			Caliche pad Caliche fines	-	-	-	 Open Hole	
5-10			Sand	-	-	-		
10-15				-	-	-		
15-20				-	-	-		
20-25				-	-	-		
25-30				-	-	-		
30-35				-	-	-		
35-40				-	-	-		
40-45				-	-	-		
45-50	44			-	-	-		
50-55				-	-	-		
55-60				-	-	-		
60-65				-	-	-		
65-70				-	-	-		
70-75				-	-	-		
75-80				-	-	-		
80-85			Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual.					
85-90								
90-95								

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



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
<b>Well Tag</b>	<b>POD Number</b>	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		<b>Q64 Q16 Q4 Sec Tws Rng</b>	<b>X Y</b>					
2062A	CP 01682 POD1	1 2 2 23 22S 34E	647164 3583992					

<b>Driller License:</b> 421	<b>Driller Company:</b> GLENN'S WATER WELL SERVICE	
<b>Driller Name:</b> CORKY GLENN		
<b>Drill Start Date:</b> 09/10/2019	<b>Drill Finish Date:</b> 09/13/2019	<b>Plug Date:</b>
<b>Log File Date:</b> 09/19/2019	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 15 GPM
<b>Casing Size:</b> 8.13	<b>Depth Well:</b> 294 feet	<b>Depth Water:</b> 42 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	56	Sandstone/Gravel/Conglomerate
	68	92	Sandstone/Gravel/Conglomerate
	242	274	Shale/Mudstone/Siltstone

Casing Perforations:	Top	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=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	CP 00622	3	4	2	14	22S	34E	647164	3585030*

x

**Driller License:** 46                      **Driller Company:** ABBOTT BROTHERS COMPANY

**Driller Name:** MURRELL ABBOTT

**Drill Start Date:** 06/03/1980      **Drill Finish Date:** 06/06/1980      **Plug Date:** 06/06/1980

**Log File Date:**                      **PCW Rcv Date:**                      **Source:**

**Pump Type:**                          **Pipe Discharge Size:**                      **Estimated Yield:**

**Casing Size:**                          **Depth Well:**                          **Depth 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.

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POINT OF DIVERSION SUMMARY

STATE ENGINEER OFFICE  
WELL RECORD

FIELD OFFICE

Section 1. GENERAL INFORMATION

(A) Owner of well Pogo Producing Co. Owner's Well No. BKD Comm. # 1  
Street or Post Office Address P.O. Box 10340  
City and State Midland, Texas 79701

Well was drilled under Permit No. CP-622 and is located in the:

- a. SW SE NE 14 of Section 14 Township 22S Range 34E N.M.P.M.
- b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_
- c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in Lea County.
- d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in the \_\_\_\_\_ Grant.

(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.

Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well Dry Hole ft.

Completed well is  shallow  artesian. Depth to water upon completion of well \_\_\_\_\_ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
<b>DRY HOLE</b>				

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<b>NO CASING DRY HOLE</b>								

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor Abbott Bros.  
Address P.O. Box 637, Hobbs, New Mexico 88240  
Plugging Method Rubble filled & cement at top  
Date Well Plugged 6/6/80  
Plugging approved by: \_\_\_\_\_

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

State Engineer Representative

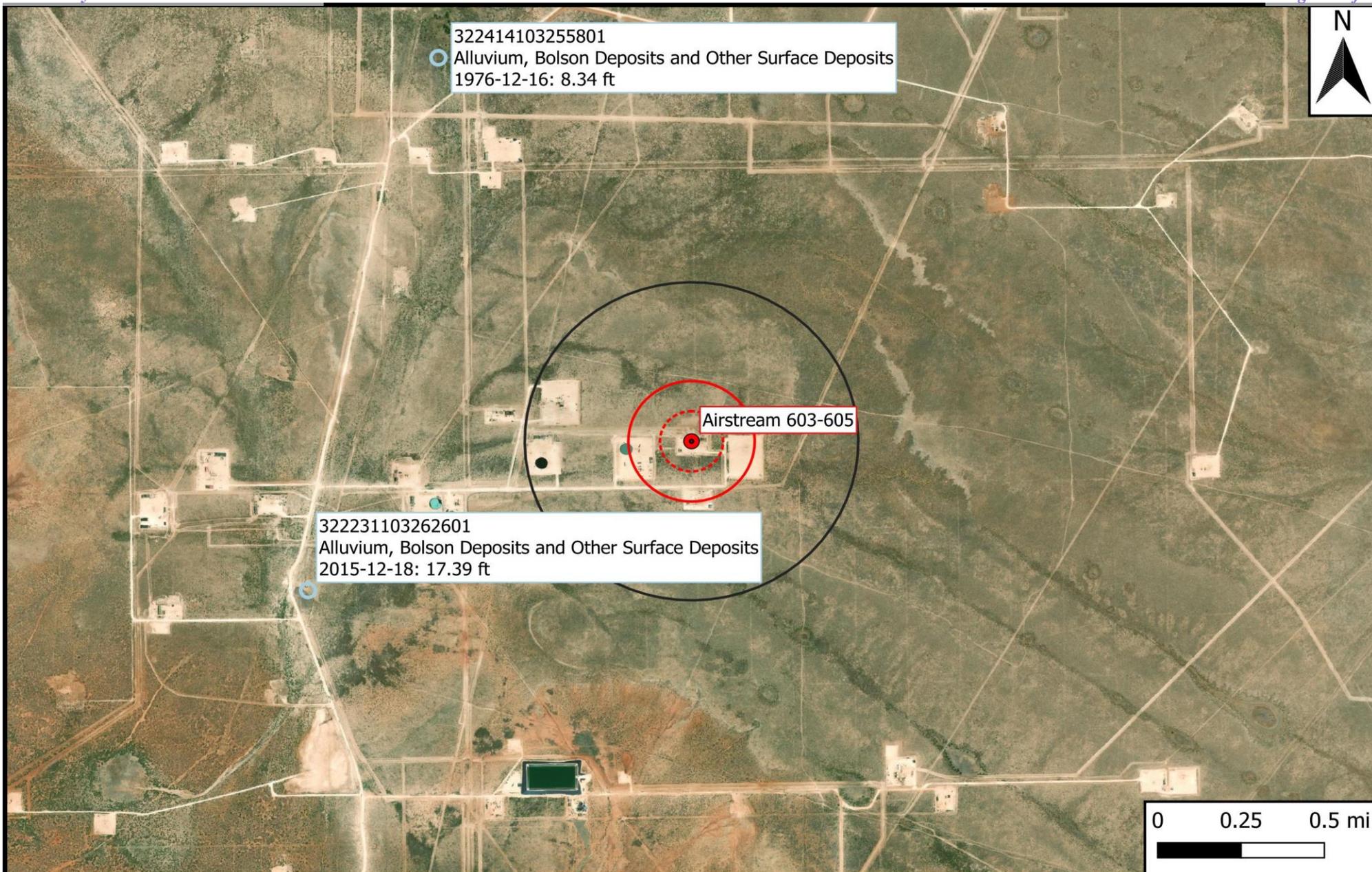
FOR USE OF STATE ENGINEER ONLY

Date Received June 12, 1980

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

File No. CP-622 Use OWD Location No. 22.34.14.24322

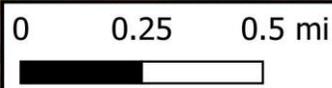




322414103255801  
 Alluvium, Bolson Deposits and Other Surface Deposits  
 1976-12-16: 8.34 ft

322231103262601  
 Alluvium, Bolson Deposits and Other Surface Deposits  
 2015-12-18: 17.39 ft

Airstream 603-605



Legend	
	Site Location
	Well - USGS
	500 Ft Radius
	1000 Ft Radius
	0.5 Mi Radius

**Figure 6**  
 USGS Well Proximity Map  
 Permian Resources  
 Airstream 603-605  
 GPS: 32.38642, -103.42057  
 Lea County

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 Environmental & Safety Solutions, Inc.

Drafted: mag    Checked: jwl    Date: 11/22/23



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USGS Water Resources

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Groundwater

Geographic Area:

United States

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### 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

GO

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.

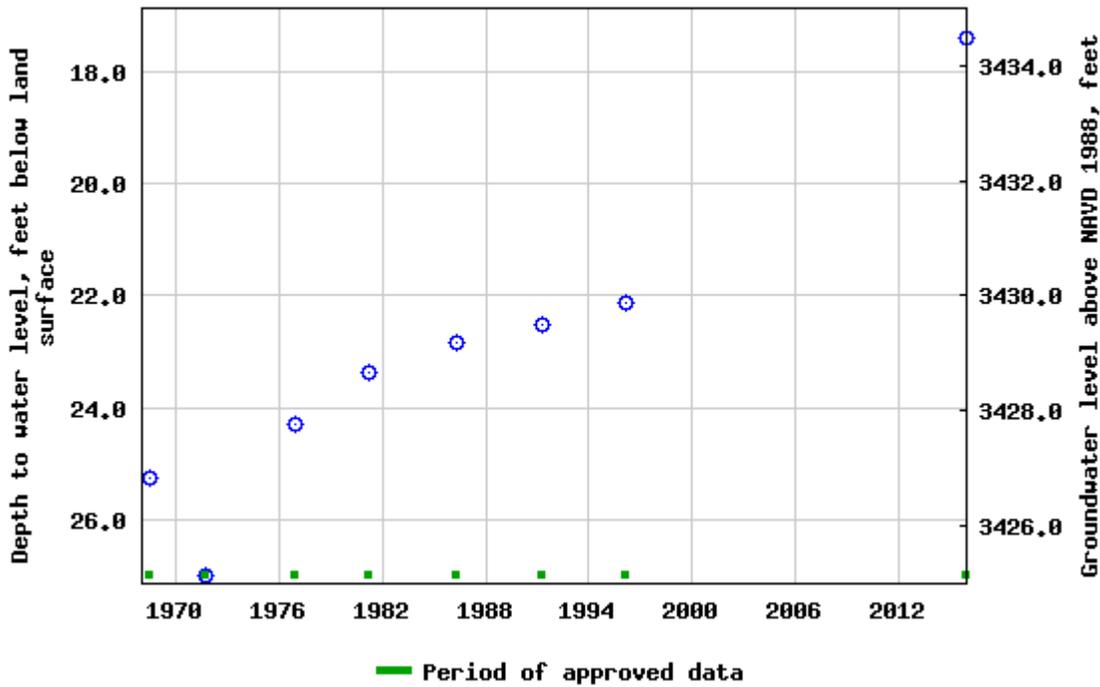
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 322231103262601 22S.34E.23.23131



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**Title: Groundwater for USA: Water Levels**

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0.64 0.51 nadww01



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### Search Results -- 1 sites found

**Agency code = usgs**

**site\_no list =**

- 322414103255801

**Minimum number of levels = 1**

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### USGS 322414103255801 22S.34E.11.24422

Available data for this site

Groundwater: Field measurements

GO

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.

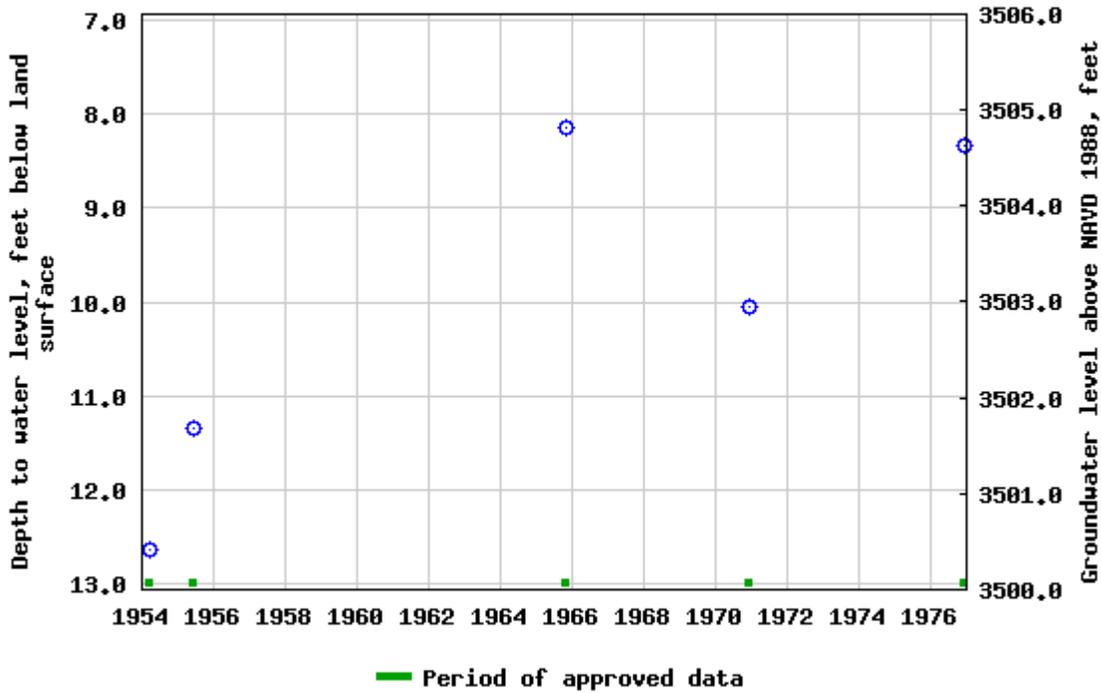
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 322414103255801 22S.34E.11.24422



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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](http://www.ose.state.nm.us)

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S) CP-02005		
	WELL OWNER NAME(S) Permian Resources				PHONE (OPTIONAL) 575-605-3471		
	WELL OWNER MAILING ADDRESS PO 3641				CITY Hobbs	STATE ZIP NM 88241	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 23	SECONDS 12.15	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE -103	25	10.77	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SWSE S-13 T-22S R-34E Lea County NM							

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. WD-1862	NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC			
	DRILLING STARTED 7/12/24	DRILLING ENDED 7/12/24	DEPTH OF COMPLETED WELL (FT) 65	BORE HOLE DEPTH (FT) 65	DEPTH WATER FIRST ENCOUNTERED (FT) 60			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) Centralizer info below				STATIC WATER LEVEL IN COMPLETED WELL (FT) 60	DATE STATIC MEASURED 7/16/24		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	6	2" SCH 40 FJ Blank	FJ thread 2.38"	2.0	0.19	
	55	65	6	2" SCH 40 FJ 0.10 perf	FJ Thread 2.38"	2.0	0.19	0.10

<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

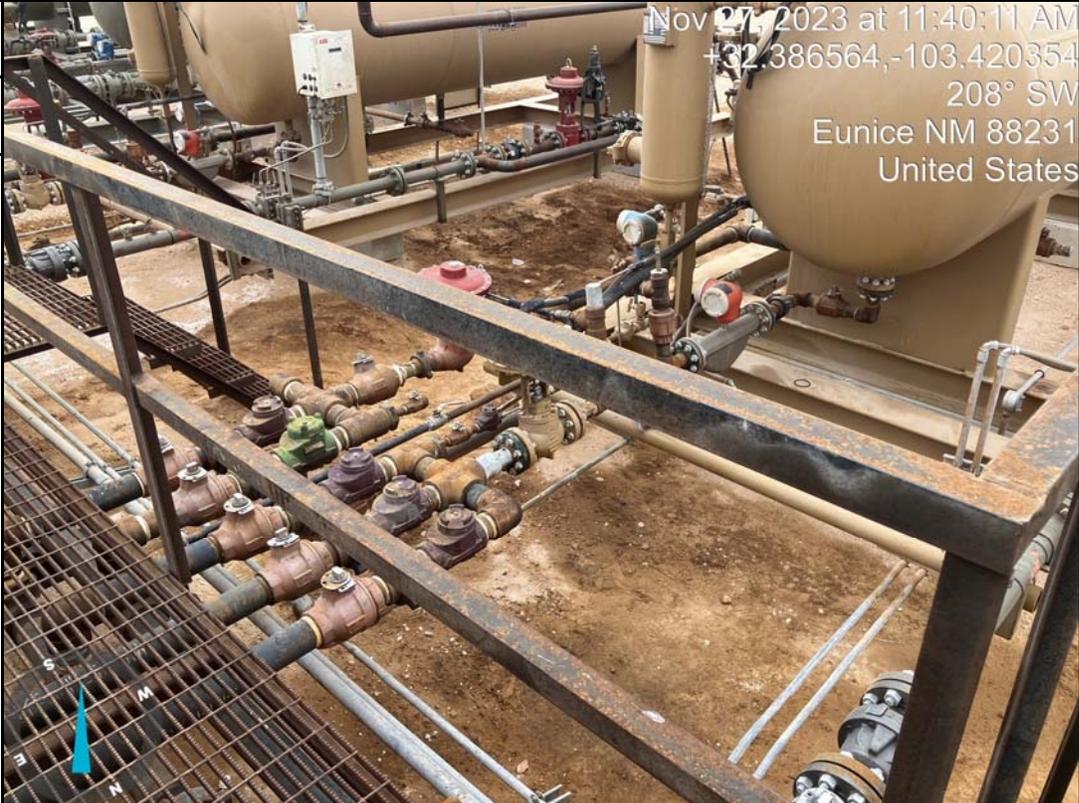
FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2			



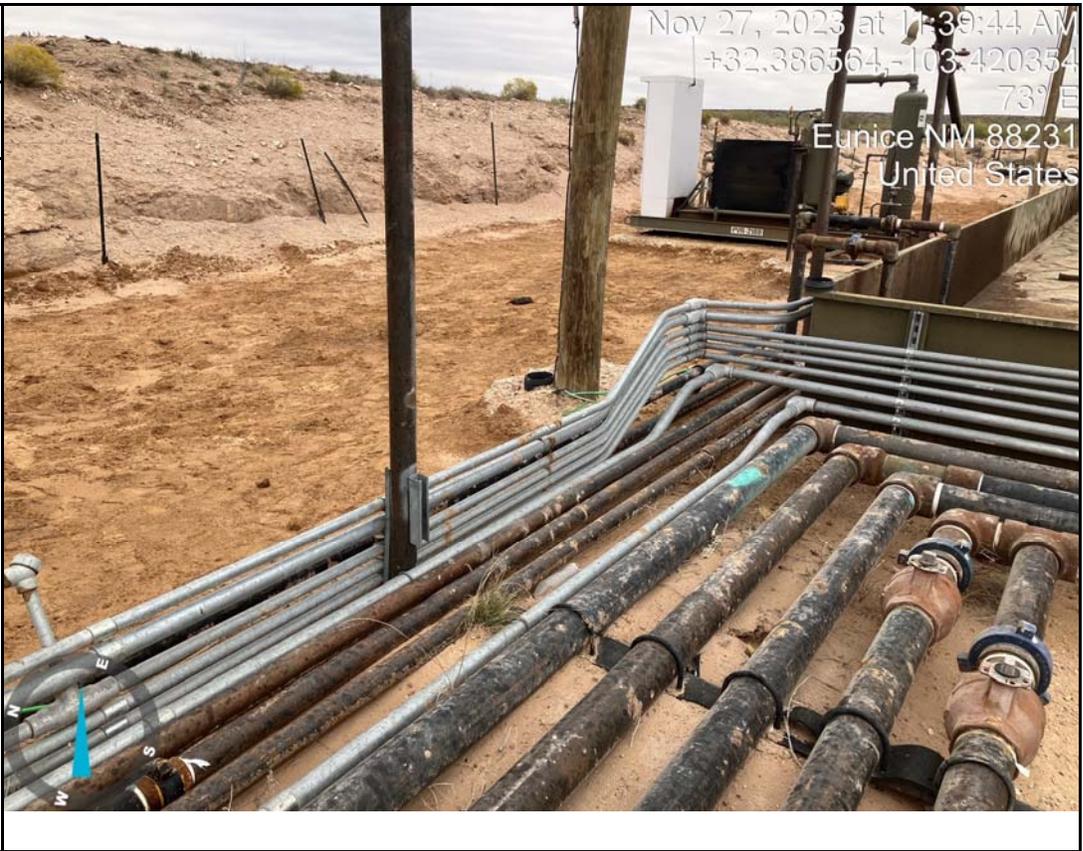
**Appendix C**  
Photographic Log

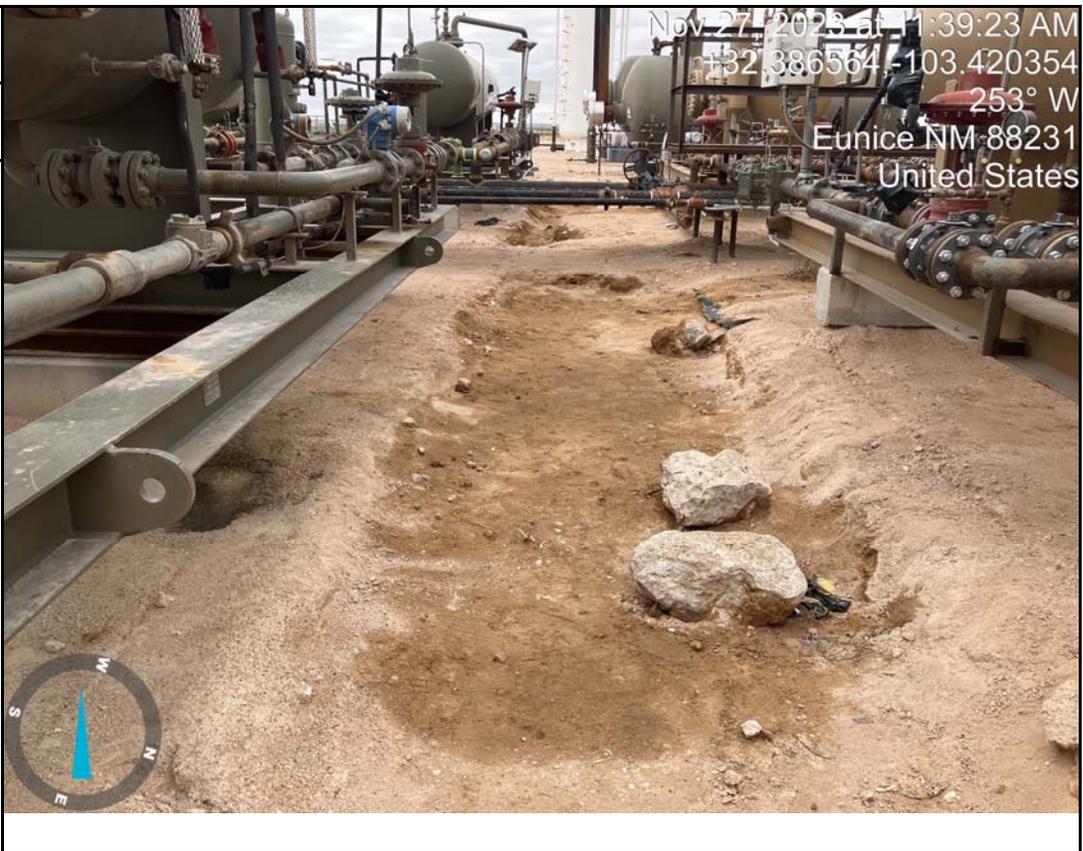
### Photographic Log

<b>Photo Number:</b> 1	 <p>Nov 27, 2023 at 11:40:29 AM +32.386564, -103.420354 250° W Eunice NM 88231 United States</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b> View of surface staining within the facility proximate to the separators.	

<b>Photo Number:</b> 2	 <p>Nov 27, 2023 at 11:40:11 AM +32.386564, -103.420354 208° SW Eunice NM 88231 United States</p>
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b> View of surface staining within the facility proximate to the separators.	

### Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b> View of surface staining on the north side of the tank battery facility.	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> West	
<b>Photo Description:</b> View of surface staining within the facility proximate to the separators.	

### Photographic Log

<b>Photo Number:</b> 5	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b> View of surface staining within the facility proximate to the separators.	

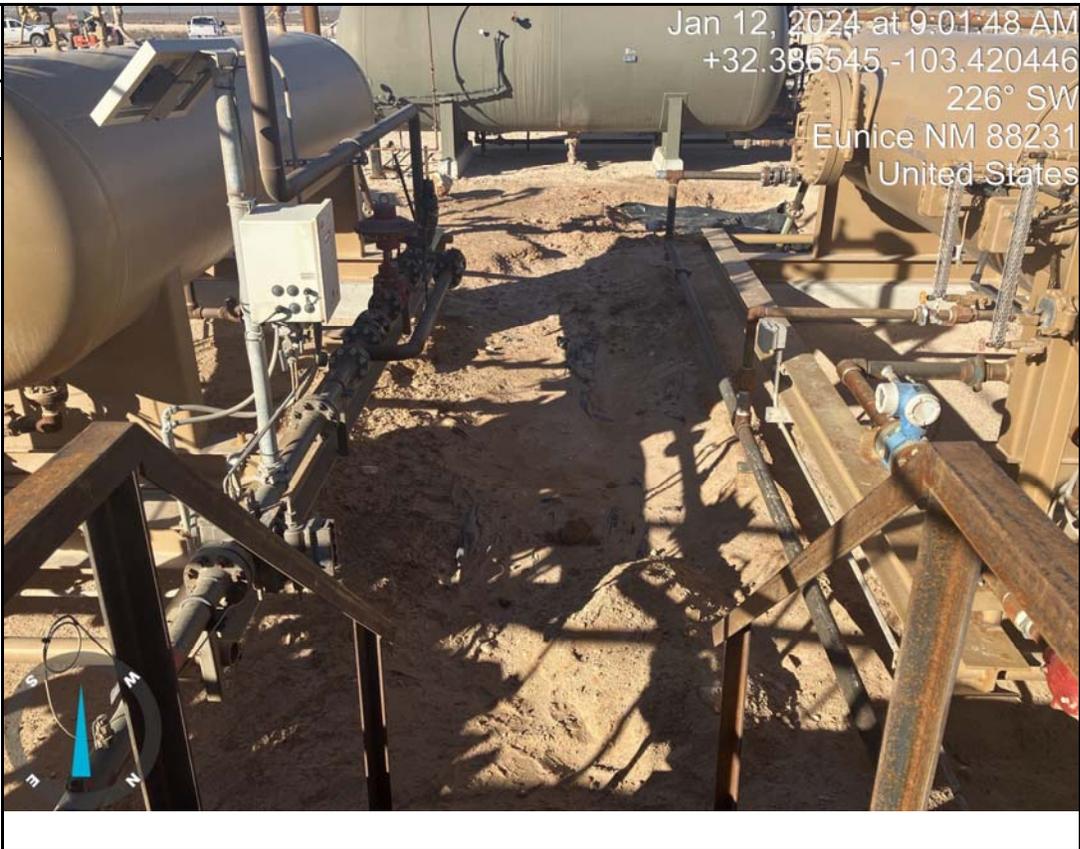
<b>Photo Number:</b> 6	
<b>Photo Direction:</b> West	
<b>Photo Description:</b> View of affected area proximate to the separators after excavation activities.	

Jan 12, 2024 at 9:01:06 AM  
#32.386438,-103.420377  
230° SW  
Eunice NM 88231  
United States

PERMIAN ENERGY SERVICES  
10000 PERMIAN ENERGY SERVICES DRIVE  
EUNICE, NEW MEXICO 88231  
TEL: 505.386.4388 FAX: 505.386.4387  
WWW.PESEN.COM

### Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> Southwest	
<b>Photo Description:</b> View of affected area on the north side of the tank battery containment after initial excavation activities.	

<b>Photo Number:</b> 8	 <p>Jan 12, 2024 at 9:01:48 AM +32.386545, -103.420446 226° SW Eunice NM 88231 United States</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b> View of affected area proximate to the separators after excavation activities.	

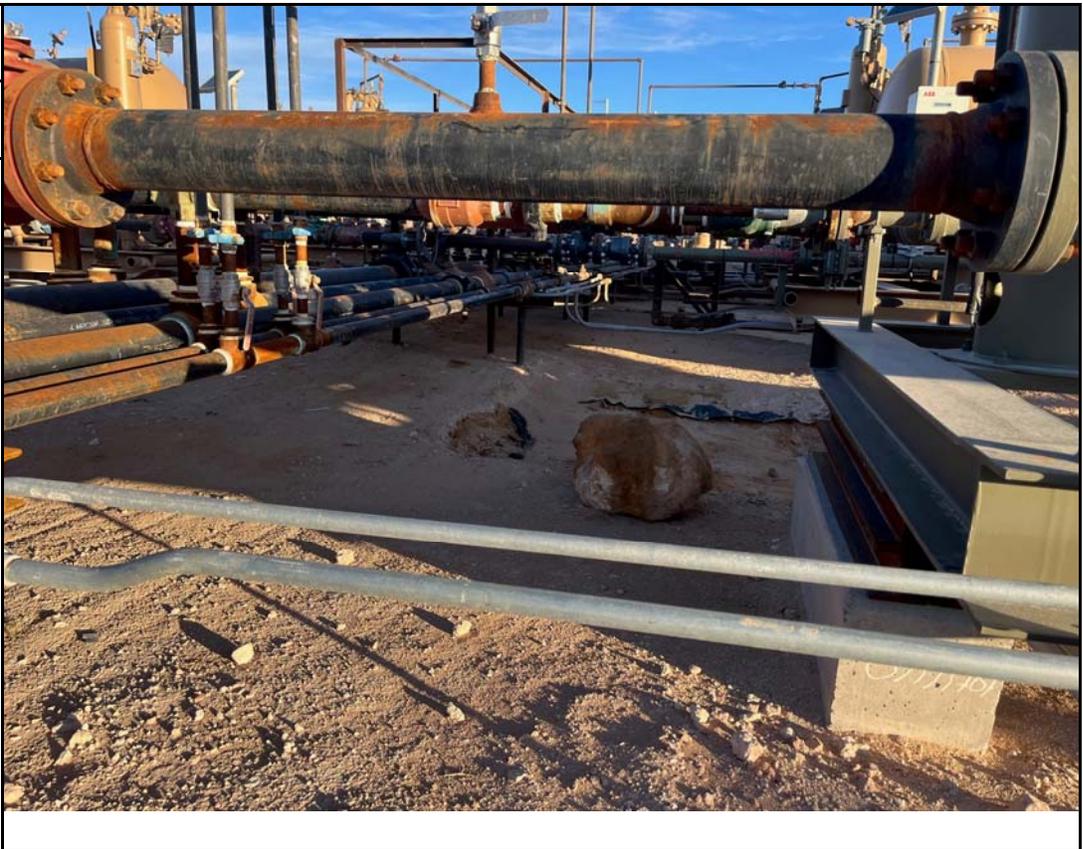
### Photographic Log

<b>Photo Number:</b> 9	
<b>Photo Direction:</b> West	
<b>Photo Description:</b> View of affected area on the north side of the tank battery containment after initial excavation activities.	

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

### Photographic Log

<b>Photo Number:</b> 11	 <p>Jan 12, 2024 at 9:02:04 AM 32.386545, -103.420446 211° SW Eunice NM 88231 United States</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>	

<b>Photo Number:</b> 12	
<b>Photo Direction:</b> South	
<b>Photo Description:</b>	

**Appendix D**  
Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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	
<b>Toluene*</b>	<b>0.095</b>	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
<b>Ethylbenzene*</b>	<b>0.051</b>	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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		
<b>DRO &gt;C10-C28*</b>	<b>13600</b>	100	01/24/2024	ND	202	101	200	1.98		
<b>EXT DRO &gt;C28-C36</b>	<b>4690</b>	100	01/24/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 577 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.72</b>	0.500	01/23/2024	ND	2.17	109	2.00	2.39	
<b>Toluene*</b>	<b>29.2</b>	0.500	01/23/2024	ND	2.15	108	2.00	6.97	
<b>Ethylbenzene*</b>	<b>23.0</b>	0.500	01/23/2024	ND	2.22	111	2.00	9.34	
<b>Total Xylenes*</b>	<b>80.1</b>	1.50	01/23/2024	ND	6.60	110	6.00	11.1	
<b>Total BTEX</b>	<b>134</b>	3.00	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>752</b>	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1400</b>	10.0	01/23/2024	ND	220	110	200	0.608	
<b>DRO &gt;C10-C28*</b>	<b>3620</b>	10.0	01/23/2024	ND	202	101	200	1.98	
<b>EXT DRO &gt;C28-C36</b>	<b>529</b>	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 168 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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	
<b>Toluene*</b>	<b>7.55</b>	0.500	01/23/2024	ND	2.15	108	2.00	6.97	
<b>Ethylbenzene*</b>	<b>5.90</b>	0.500	01/23/2024	ND	2.22	111	2.00	9.34	
<b>Total Xylenes*</b>	<b>22.9</b>	1.50	01/23/2024	ND	6.60	110	6.00	11.1	
<b>Total BTEX</b>	<b>36.4</b>	3.00	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>745</b>	100	01/24/2024	ND	220	110	200	0.608	
<b>DRO &gt;C10-C28*</b>	<b>12400</b>	100	01/24/2024	ND	202	101	200	1.98	
<b>EXT DRO &gt;C28-C36</b>	<b>2210</b>	100	01/24/2024	ND					

Surrogate: 1-Chlorooctane 342 % 48.2-134

Surrogate: 1-Chlorooctadecane 307 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.056</b>	0.050	01/23/2024	ND	2.31	116	2.00	1.02		
<b>Toluene*</b>	<b>1.64</b>	0.050	01/23/2024	ND	2.14	107	2.00	6.11		
<b>Ethylbenzene*</b>	<b>2.51</b>	0.050	01/23/2024	ND	2.23	111	2.00	4.06	QM-07	
<b>Total Xylenes*</b>	<b>9.24</b>	0.150	01/23/2024	ND	6.68	111	6.00	3.91	QM-07	
<b>Total BTEX</b>	<b>13.4</b>	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 169 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>208</b>	16.0	01/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>408</b>	10.0	01/24/2024	ND	204	102	200	2.51		
<b>DRO &gt;C10-C28*</b>	<b>8100</b>	10.0	01/24/2024	ND	205	102	200	0.276	QM-07	
<b>EXT DRO &gt;C28-C36</b>	<b>1480</b>	10.0	01/24/2024	ND						

Surrogate: 1-Chlorooctane 149 % 48.2-134

Surrogate: 1-Chlorooctadecane 223 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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	
<b>Toluene*</b>	<b>0.332</b>	0.050	01/23/2024	ND	2.14	107	2.00	6.11	
<b>Ethylbenzene*</b>	<b>0.171</b>	0.050	01/23/2024	ND	2.23	111	2.00	4.06	
<b>Total Xylenes*</b>	<b>0.559</b>	0.150	01/23/2024	ND	6.68	111	6.00	3.91	
<b>Total BTEX</b>	<b>1.06</b>	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.7 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>368</b>	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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	
<b>DRO &gt;C10-C28*</b>	<b>18.2</b>	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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	
<b>DRO &gt;C10-C28*</b>	<b>177</b>	10.0	01/24/2024	ND	205	102	200	0.276	
<b>EXT DRO &gt;C28-C36</b>	<b>77.2</b>	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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	
<b>DRO &gt;C10-C28*</b>	<b>70.7</b>	10.0	01/24/2024	ND	205	102	200	0.276	
<b>EXT DRO &gt;C28-C36</b>	<b>21.8</b>	10.0	01/24/2024	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager







PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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 [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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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

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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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.

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 1 @ 6"  
H240494-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>464</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.668</b>		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>12.7</b>		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>11.2</b>		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>31.4</b>		0.300	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>56.0</b>		0.600	mg/kg	100	4020207	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			178 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>620</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>9770</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1810</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			116 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			206 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 2 @ 6"**  
**H240494-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.315</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>6.32</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>6.54</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>19.1</b>		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>32.3</b>		0.300	mg/kg	50	4020207	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			216 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>408</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3260</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>582</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			138 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			112 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 3 @ 6"**

**H240494-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Inorganic Compounds**

<b>Chloride</b>	<b>1150</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.269</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>3.72</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>3.08</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>9.71</b>		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>16.8</b>		0.300	mg/kg	50	4020207	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			174 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>384</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>18400</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4310</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			129 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			450 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 4 @ 6"**

**H240494-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.171</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>0.778</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>1.90</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>7.53</b>		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>10.4</b>		0.300	mg/kg	50	4020207	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			213 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

<b>GRO C6-C10*</b>	<b>488</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>27700</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>5210</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			180 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			598 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 5 @ 6"**  
**H240494-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>0.415</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>0.562</b>		0.050	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>1.78</b>		0.150	mg/kg	50	4020207	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>2.76</b>		0.300	mg/kg	50	4020207	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			121 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>21700</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>5880</b>		50.0	mg/kg	5	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.7 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			577 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 6 @ 6"**

**H240494-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>912</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

Benzene*	<0.500		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Toluene*	17.7		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Ethylbenzene*	19.0		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Total Xylenes*	65.4		1.50	mg/kg	500	4020207	JH	03-Feb-24	8021B	
Total BTEX	102		3.00	mg/kg	500	4020207	JH	03-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			144 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**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	
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Surrogate: 1-Chlorooctadecane			751 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 7 @ 6"**

**H240494-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>1280</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4020207	JH	02-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10.9</b>		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	

<i>Surrogate: 1-Chlorooctane</i>			95.5 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.6 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 8 @ 6"**

**H240494-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		4020207	JH	02-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>401</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>222</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.9 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 1 @ 6'-R  
H240494-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>1120</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>1.60</b>		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>60.2</b>		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>48.1</b>		0.500	mg/kg	500	4020207	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>130</b>		1.50	mg/kg	500	4020207	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>240</b>		3.00	mg/kg	500	4020207	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			155 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>1980</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5360</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>836</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			125 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 2 @ 2'**  
**H240494-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>368</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>0.286</b>		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>7.31</b>		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>6.99</b>		0.100	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>21.0</b>		0.300	mg/kg	100	4020207	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>35.6</b>		0.600	mg/kg	100	4020207	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			164 %	71.5-134		4020207	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>314</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3910</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>745</b>		10.0	mg/kg	1	4020147	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			123 %	48.2-134		4020147	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %	49.1-148		4020147	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 3 @ 3'-R  
H240494-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-CI-B	
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**Volatile Organic Compounds by 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	JH	03-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	71.5-134		4020209	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by 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	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		4020147	MS	03-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 4 @ 4'-R  
H240494-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

Benzene*	<0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Toluene*	<b>0.881</b>		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Ethylbenzene*	<b>0.956</b>		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total Xylenes*	<b>3.71</b>		0.150	mg/kg	50	4020209	JH	02-Feb-24	8021B	
Total BTEX	<b>5.55</b>		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			172 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<b>126</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
DRO >C10-C28*	<b>1650</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
EXT DRO >C28-C36	<b>317</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	

Surrogate: 1-Chlorooctane			114 %	48.2-134		4020147	MS	03-Feb-24	8015B	
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Surrogate: 1-Chlorooctadecane			107 %	49.1-148		4020147	MS	03-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 5 @ 8'-R  
H240494-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>5.70</b>		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>121</b>		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>90.2</b>		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>266</b>		6.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>483</b>		12.0	mg/kg	2000	4020209	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			130 %	71.5-134		4020209	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>2110</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4820</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>716</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			130 %	48.2-134		4020147	MS	03-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %	49.1-148		4020147	MS	03-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 6 @ 5'-R  
H240494-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			90.1 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			96.9 %	48.2-134		4020147	MS	03-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.4 %	49.1-148		4020147	MS	03-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 7 @ 1.5'  
H240494-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-Cl-B	
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**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)			116 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	
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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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**DEF - 8 @ 1'**  
**H240494-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	4020526	CT	05-Feb-24	4500-CI-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
<b>Toluene*</b>	<b>0.090</b>		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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>182</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>37.8</b>		10.0	mg/kg	1	4020147	MS	03-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.7 %	48.2-134		4020147	MS	03-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.6 %	49.1-148		4020147	MS	03-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**SP - 1 @ 2'-R  
H240494-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
<b>Toluene*</b>	<b>0.258</b>		0.050	mg/kg	50	4020209	JH	02-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>0.081</b>		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	
<b>Total BTEX</b>	<b>0.482</b>		0.300	mg/kg	50	4020209	JH	02-Feb-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>327</b>		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>111</b>		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	
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Surrogate: 1-Chlorooctadecane			114 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**SP - 2 @ 3'-R  
H240494-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>960</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>2.21</b>		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>31.8</b>		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>18.6</b>		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>57.1</b>		3.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>110</b>		6.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		4020209	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>592</b>		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2850</b>		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>562</b>		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			121 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			120 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**SP - 3 @ 2'-R  
H240494-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

**S-04**

<b>Benzene*</b>	<b>1.46</b>		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>46.6</b>		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>50.1</b>		1.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>163</b>		3.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>261</b>		6.00	mg/kg	1000	4020209	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			142 %	71.5-134		4020209	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>1710</b>		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4870</b>		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>882</b>		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			180 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			123 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**SP - 4 @ 10'-R**

**H240494-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<b>17.1</b>		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Toluene*</b>	<b>203</b>		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Ethylbenzene*</b>	<b>106</b>		2.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Total Xylenes*</b>	<b>306</b>		6.00	mg/kg	2000	4020209	JH	03-Feb-24	8021B	
<b>Total BTEX</b>	<b>632</b>		12.0	mg/kg	2000	4020209	JH	03-Feb-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			117 %	71.5-134		4020209	JH	03-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

**S-04**

<b>GRO C6-C10*</b>	<b>3120</b>		10.0	mg/kg	1	4020148	MS	03-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>5920</b>		10.0	mg/kg	1	4020148	MS	03-Feb-24	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1070</b>		10.0	mg/kg	1	4020148	MS	03-Feb-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			213 %	48.2-134		4020148	MS	03-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			134 %	49.1-148		4020148	MS	03-Feb-24	8015B	
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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**WH - 1 @ SURF  
H240494-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			76.0 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.1 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**WH - 2 @ SURF  
H240494-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.8 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			88.6 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.4 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**NH - 1 @ SURF  
H240494-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			93.0 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			100 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**NH - 2 @ SURF  
H240494-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			95.6 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**SH - 1 @ SURF  
H240494-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>42.1</b>		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	

<i>Surrogate: 1-Chlorooctane</i>			85.2 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.2 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**SH - 2b @ SURF  
H240494-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4020148	MS	02-Feb-24	8015B	
<b>DRO &gt;C10-C28*</b>	<b>19.2</b>		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	

<i>Surrogate: 1-Chlorooctane</i>			83.7 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.3 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**SH - 2b @ 1'**  
**H240494-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			92.3 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**EH - 1 @ SURF  
H240494-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			91.5 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			102 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**EH - 2b @ 1'  
H240494-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**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)			106 %	71.5-134		4020209	JH	02-Feb-24	8021B	
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**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	
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Surrogate: 1-Chlorooctadecane			100 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**EH - 2b @ SURF  
H240494-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**

**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	4020518	AC	05-Feb-24	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		4020209	JH	03-Feb-24	8021B	
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**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	

<i>Surrogate: 1-Chlorooctane</i>			78.3 %	48.2-134		4020148	MS	02-Feb-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %	49.1-148		4020148	MS	02-Feb-24	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**Inorganic Compounds - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4020518 - 1:4 DI Water**

<b>Blank (4020518-BLK1)</b>		Prepared & Analyzed: 05-Feb-24								
Chloride	ND	16.0	mg/kg							
<b>LCS (4020518-BS1)</b>		Prepared & Analyzed: 05-Feb-24								
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (4020518-BSD1)</b>		Prepared & Analyzed: 05-Feb-24								
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

**Batch 4020526 - 1:4 DI Water**

<b>Blank (4020526-BLK1)</b>		Prepared & Analyzed: 05-Feb-24								
Chloride	ND	16.0	mg/kg							
<b>LCS (4020526-BS1)</b>		Prepared & Analyzed: 05-Feb-24								
Chloride	400	16.0	mg/kg	400		100	80-120			
<b>LCS Dup (4020526-BSD1)</b>		Prepared & Analyzed: 05-Feb-24								
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	

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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4020207 - Volatiles**

**Blank (4020207-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							
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: 02-Feb-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							

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4020209 - Volatiles**

**Blank (4020209-BLK1)**

Prepared & Analyzed: 02-Feb-24

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

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			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4020147 - General Prep - Organics**

<b>Blank (4020147-BLK1)</b>		Prepared: 01-Feb-24 Analyzed: 02-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			

<b>LCS (4020147-BS1)</b>		Prepared: 01-Feb-24 Analyzed: 02-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			

<b>LCS Dup (4020147-BSD1)</b>		Prepared: 01-Feb-24 Analyzed: 02-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**

<b>Blank (4020148-BLK1)</b>		Prepared: 01-Feb-24 Analyzed: 02-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	42.9		mg/kg	50.0		85.9	48.2-134			
Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.1	49.1-148			

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**Analytical Results For:**

Etech Environmental & Safety Solutions 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
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**Petroleum Hydrocarbons by GC FID - Quality Control**

**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4020148 - General Prep - Organics**

**LCS (4020148-BS1)**

Prepared: 01-Feb-24 Analyzed: 02-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 Analyzed: 02-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			

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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 SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager







**ARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
Project Manager: Robbie Runnels		P.O. #:		Chloride TPH (8015M) BTEX (8021B)																					
Address: 2617 West Marland		Company: Etech																							
City: Hobbs State: NM Zip: 88240		Attn: Robbie Runnels																							
Phone #: (575) 264-9884 Fax #:		Address:																							
Project #: 19397 Project Owner: Permian Resources		City:																							
Project Name: Airstream 603-605		State: Zip:																							
Project Location: GPS: (32.38642, -103.42057)		Phone #:																							
Sampler Name: Aaron Rios		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
21	WH-1 @ Surf	G	1			X				X			1/31/24		X	X	X								
22	WH-2 @ Surf	G	1			X				X			1/31/24		X	X	X								
23	NH-1 @ Surf	G	1			X				X			1/31/24		X	X	X								
24	NH-2 @ Surf	G	1			X				X			1/31/24		X	X	X								
25	SH-1 @ Surf	G	1			X				X			1/31/24		X	X	X								
26	SH-2 @ Surf	G	1			X				X			1/31/24		X	X	X								
27	SH-2 @ 1'	G	1			X				X			1/31/24		X	X	X								
28	EH-1 @ Surf	G	1			X				X			1/31/24		X	X	X								
29	EH-1 @ 1'	G	1			X				X			1/31/24		X	X	X								
30	EH-2 @ Surf	G	1			X				X			1/31/24		X	X	X								

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Relinquished By: <i>[Signature]</i>	Date: 2/1/24	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Time: 14:53	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Date: - 8-8-02	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: * Customer requested Sample ID changes. to - 2/7/24 Please email copy of COC and results to pm@etechenv.com ** Customer requested Sample ID changes. to - 2/8/24	
FORM-006 Revision 1.0	#140	Checked By: <i>[Signature]</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.22</b>	0.500	03/15/2024	ND	2.28	114	2.00	0.634	
<b>Toluene*</b>	<b>46.5</b>	0.500	03/15/2024	ND	2.23	112	2.00	0.509	
<b>Ethylbenzene*</b>	<b>38.3</b>	0.500	03/15/2024	ND	2.21	110	2.00	0.796	
<b>Total Xylenes*</b>	<b>119</b>	1.50	03/15/2024	ND	6.44	107	6.00	0.916	
<b>Total BTEX</b>	<b>206</b>	3.00	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	03/18/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2540</b>	50.0	03/16/2024	ND	231	115	200	8.20	QM-07
<b>DRO &gt;C10-C28*</b>	<b>7230</b>	50.0	03/16/2024	ND	206	103	200	6.67	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>858</b>	50.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 240 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>3.17</b>	0.500	03/15/2024	ND	2.28	114	2.00	0.634	
<b>Toluene*</b>	<b>50.5</b>	0.500	03/15/2024	ND	2.23	112	2.00	0.509	
<b>Ethylbenzene*</b>	<b>36.0</b>	0.500	03/15/2024	ND	2.21	110	2.00	0.796	
<b>Total Xylenes*</b>	<b>110</b>	1.50	03/15/2024	ND	6.44	107	6.00	0.916	
<b>Total BTEX</b>	<b>200</b>	3.00	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	03/18/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>2590</b>	50.0	03/16/2024	ND	231	115	200	8.20	
<b>DRO &gt;C10-C28*</b>	<b>7160</b>	50.0	03/16/2024	ND	206	103	200	6.67	
<b>EXT DRO &gt;C28-C36</b>	<b>914</b>	50.0	03/16/2024	ND					

Surrogate: 1-Chlorooctane 237 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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	
<b>Toluene*</b>	<b>0.152</b>	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	03/18/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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 SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager





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---

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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,-103.4)		

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

BTEX 8021B		mg/kg		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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,-103.4)		

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

BTEX 8021B		mg/kg		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**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,-103.4)		

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

BTEX 8021B		mg/kg		Analyzed 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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/18/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed 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	
<b>DRO &gt;C10-C28*</b>	<b>64.8</b>	10.0	07/17/2024	ND	193	96.5	200	0.820	
<b>EXT DRO &gt;C28-C36</b>	<b>13.6</b>	10.0	07/17/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Etech Environmental & Safety Solutions, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																																																								
Project Manager: Joel Lowry		P.O. #:		<table border="1"> <tr><td>Chloride</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TPH (8015M)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										Chloride																					TPH (8015M)																					BTEX (8021B)																				
Chloride																																																																												
TPH (8015M)																																																																												
BTEX (8021B)																																																																												
Address: 2617 West Marland		Company: Permian Resources																																																																										
City: Hobbs State: NM Zip: 88240		Attn: Montgomery Floyd																																																																										
Phone #: (575) 264-9884 Fax #:		Address:																																																																										
Project #: 19397 Project Owner: Permian Resources		City:																																																																										
Project Name: Airstream 603-605		State: Zip:																																																																										
Project Location: 32.38642, -103.42057		Phone #:																																																																										
Sampler Name: Robbie Runnels		Fax #:																																																																										
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																																																																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																																																														
H244258																																																																												
1	BH @ 20'	G	1			X					X		7/16/24		X	X	X																																																											
2	BH @ 24'	G	1			X					X		7/16/24		X	X	X																																																											
3	BH @ 28'	G	1			X					X		7/16/24		X	X	X																																																											
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																																																												
Relinquished By:		Date: 7-17-24		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																																																																				
		Time: 0825				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																																																																				
Relinquished By:		Date:		Received By:		REMARKS:																																																																						
		Time:				Please email copy of COC and results to pm@etechenv.com.																																																																						
Delivered By: (Circle One)		#140		Sample Condition		CHECKED BY:																																																																						
Sampler - UPS - Bus - Other:		-1.0c		Cool Intact		(Initials)																																																																						
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				<input type="checkbox"/> No <input type="checkbox"/> No																																																																								

**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 # <i>nAPP2320839776</i>
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
O	13	22S	34E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: ~~XXXXXXXXXXXXXXXXXXXX~~)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 78	Volume Recovered (bbls) 70
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> 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.



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	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
P	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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 21	Volume Recovered (bbls) 18
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 4
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> 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.



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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> 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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2329127081
District RP	
Facility ID	
Application ID	

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2329127081
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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.

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

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

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

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

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

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

NAPP2329127081

Area #1

	Length	Width	Depth Feet & Inches	Calc Volume - BBLS
Dimensions	48	5	0 6	21.37
			TOTAL	21.37

	Length	Width	Depth Feet & Inches	Calc Volume - BBLS
Dimensions	48	5	0 6	$=C15*D15*(E15+(F15/12))*0.1781$

Area #2

	Length	Width	Depth Feet & 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

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

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

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

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

CONDITIONS  
 Action 276804

**CONDITIONS**

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

**CONDITIONS**

Created By	Condition	Condition Date
scwells	None	10/18/2023

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
 1220 S. St Francis Dr., Santa Fe, NM 87505  
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 383840

**QUESTIONS**

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

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2320839776
Incident Name	NAPP2320839776 AIRSTREAM CTB 2 @ 0
Incident Type	Oil Release
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	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	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  
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**District II**  
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QUESTIONS, Page 2

Action 383840

**QUESTIONS (continued)**

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

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

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

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	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 unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.*

On what estimated date will the remediation commence	01/09/2024
On what date will (or did) the final sampling or liner inspection occur	12/01/2024
On what date will (or was) the remediation complete(d)	12/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	13000
What is the estimated volume (in cubic yards) that will be reclaimed	1925
What is the estimated surface area (in square feet) that will be remediated	13000
What is the estimated volume (in cubic yards) that will be remediated	1615

*These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.*

*The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.*

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QUESTIONS, Page 4

Action 383840

**QUESTIONS (continued)**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 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 office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> 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]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> 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.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

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
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 383840

**QUESTIONS (continued)**

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

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
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
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (##) 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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Montgomery Floyd Title: Environmental Manager Email: montgomery.floyd@permianres.com Date: 09/16/2024

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Action 383840

**QUESTIONS (continued)**

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

**QUESTIONS**

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

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 383840

**CONDITIONS**

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 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