

December 30, 2024

Shugart 23 Federal Com #001 – Raybaw Operating, LLC



Proposed Sampling Plan Report
Written by Sapec-Eco, LLC for Raybaw
Operating, LLC

ATTN: **NMOCD District 2**
811 South First St
Artesia, NM 88210

Bureau of Land Management
620 E Green St
Carlsbad, NM 88220

RE: **Proposed Sampling Plan Report**
Shugart 23 Federal Com #001
API No. 30-015-30448 Raybaw Operating, LLC [330220]
Surface Location: J - 23 - 18S - 31E 1650 FSL 1980 FEL
Lat/Long: 32.7303581, -103.838028 NAD83
NMOCD Incident IDs - nMLB0912449922 & nMLB1125557019

Raybaw Operating, LLC (Raybaw) has contracted Sapec-Eco, LLC (Sapec) to prepare this proposed sampling plan for two (2) historic open release areas at the Shugart 23 Federal Com #001 (Shugart).

Release Information

nMLB0912449922: On April 23, 2009, discovered hole in bottom of tank caused by internal corrosion. Will air out area, rake, and fertilize. 70' x 20' air out area, rake, and fertilize. Will repeat if necessary. Released 40 barrels (bbls) of crude oil, recovered 11 bbls. This incident was assigned incident ID nMLB0912449922 by the New Mexico Oil Conservation Division (NMOCD). The initial C-141 form (Appendix C) was submitted on April 24, 2009, then approved by the NMOCD on May 4, 2009.

nMLB1125557019: On September 4, 2011, Hole in oil tank. Immediately, a vacuum truck was used to pick up the spill. 31 bbls were recovered out of 70 bbls. 60' x 20' in containment area. Our plan includes moving the oil tanks and rebuilding the battery at another part of the location and soil remediation will be completed in the spill area. This incident was assigned incident ID nMLB1125557019 by the NMOCD. The initial C-141 form (Appendix C) was submitted on September 6, 2011, then approved by the NMOCD on September 12, 2011.

Site Characterization

The Shugart is in Eddy County, NM approximately ten (10) miles southeast of Loco Hills, NM. This release site is in Unit J, Section 23, Township 18S, Range 31E, at GPS coordinates 32.7303581 latitude and -103.838028 longitude. It can be accessed by a lease road that bears entry from the southwest. A Location Map can be referenced in Figure 6.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is Eolian and piedmont deposits. Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. Appendix B contains a Geologic Unit Map for reference.

The soil in this area, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey, is made up of Berino-Parajito complex, having 0 to 3 percent slopes, eroded. The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Shugart (Figure 4) with the nearest medium karst zone being 4 miles away. Soil Survey and Geological Data can be found in Appendix B. A Topographic Map can be referenced in Figure 5.

This site is in a known Lesser Prairie Chicken or Sand Dune Lizard habitat. It is in an Isolated Population Area within an LPC Timing Restriction Area zone, according to the LPC Timing Area 2021 Southern Map courtesy of the Bureau of Land Management. Any work to be done on this site between March 1, and June 15, will strictly adhere to the Timing Restrictions regulation. LPC-Dune Lizard Maps can be referenced in Figure 7.

This site is not within a special plant species habitat but is within 5 miles of the habitats for Scheer's Beehive Cactus and Tharp's Blue-Star. A Plant/Wildlife Map can be found in Figure 8.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is greater than 100 feet below grade surface (bgs). This data was recorded from CP-02011-POD1, which is located approximately 4.49 miles away from the Shugart. According to the United States Geological Survey, well water data from USGS 324502103495801 18S.31E.14.22133 records depth to the nearest groundwater at 378 feet bgs, with the last gauge being conducted in 1994. This well is approximately 1.3 miles away from the Shugart. All referenced Water Surveys and Water-Related Maps can be found in Appendix A.

The nearest surface water feature is Hackberry Lake located approximately 8.33 miles to the southwest of this site. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Pond approximately 4.45 miles to the northeast of this area. According to Fema's National Flood Hazard Layer search, the Shugart is situated in Zone X - Area of Minimal Flood Hazard. Closure criteria for this site will be classified under the less than 50-foot depth to groundwater section of Table 1 19.15.29.12 NMAC.

Previous Remediation Activities

On October 11, 2011, EnviroClean Products & Services mobilized to the site to collect soil samples for assessing the extent of the release area. These samples were collected from the tank battery area after the tanks and plumbing had been removed. The samples were put on ice, jarred, then delivered to Cardinal Laboratories for official analysis of BTEX and Total TPH.

On February 5, 2012, EnviroClean personnel returned to the site to begin remediation activities. The method of remediation consisted of excavation combined with in-situ bioremediation. An EnviroClean Summary inclusive of sample results, a description of remediation activities, a site map, and photographs (black & white) can be referenced in Figure 1. Complete Laboratory Reports can be found in Appendix E.

On July 3, 2012, Devon submitted the EnviroClean Sampling and Site Remediation Report for closure of the nMLB1125557019 incident.

On July 14, 2015, the NMOCD responded to the report with a denial requiring the site to be resampled to complete delineation and follow up on the bioremediation with confirmation sampling.

On July 8, 2020, Pima Environmental Services conducted a site assessment and obtained soil samples.

On August 21, 2020, Pima personnel returned to the site to apply a MicroBlaze treatment to the area. After allowing 60 days for the microbes to take effect, they returned to the site to resample. A Pima Summary inclusive of sample results, a description of remediation activities, a site map, and photographs can be referenced in Figure 2. Complete Laboratory Reports can be found in Appendix E.

On December 14, 2020, Devon submitted the Pima closure report for closure of both associated incidents, nMLB0912449922 and nMLB1125557019.

On January 12, 2023, the NMOCD denied both closure requests citing:

amaxwell (1/12/2023), The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.

amaxwell (1/12/2023), Horizontal and vertical delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.

amaxwell (1/12/2023), Submit a work plan via the OCD permitting portal by 04/23/2023.

Regarding the 2 previous bioremediation methods, no documentation was found verifying their pre-approval by the NMOCD. As a result, the proposed sampling below will be conducted to demonstrate the current status of the impacted areas.

In response to the denied closure requests for both incidents, Raybaw would like to submit this following plan:

Proposed Sampling Plan

1. Submit a 48-Hour Notification of Sampling event to the NMOCD. Also, please see the variance requests below.
2. Collect discrete samples from eleven (24) sample points within the previously treated areas and the ex-situ treatment cell area. These samples will be collected from each sample point at depth intervals of surface, 1', 2', 3', and 4' bgs. The samples that will be collected from around the secondary tank containment should be angled underneath the containment as much as safely possible to represent the previously treated soil.

3. Collect discrete samples from eight (16) sample points from around the edges of the previously treated areas and the ex-situ treatment cell area. These samples will also be collected from each sample point at depth intervals of surface, 1', 2', 3', and 4' bgs. A Proposed Sampling Map can be referenced in Figure 3.
4. A total of 200 samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.
5. Once lab results have been received and all data has been assessed, any sample results verifying contamination is present over the regulatory limits of the less than 50-foot depth to groundwater section of Table 1 19.15.29.12 NMAC, will be remediated by methods of hand-tool and/or mechanical excavation. Area and volume calculations will be completed at that time.
6. After removing any existing contamination, a 48-Hour notification of confirmation sampling event will be submitted, and confirmation composite samples will be collected from all excavated areas representing no more than 200 square feet each. These samples will be collected from the base and walls of all excavated areas.
7. All samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories for official analysis of all constituents listed in Table 1 19.15.29.12 NMAC.
8. Once lab results are received, if samples are verified to be under the regulatory limits of the less than 50-foot depth to groundwater section of Table 1, a final closure report will be drafted and submitted to the Portal for approval.

Variance Request

Raybaw would like to request a variance to use the delineation samples as confirmation samples in the following situation: If after step 4 of this plan, the lab sample results reported for the delineation samples, verify contamination levels are under the regulatory limits of the less than 50-foot depth to groundwater section of Table 1, then a final closure report will be drafted and submitted to the Portal for approval.

Raybaw would like to also request a variance regarding the number of samples required from the ex-situ treatment cell area for this investigative sampling event. The treatment area was approximately 4,765 feet squared, requiring 24 samples from within the area and had a perimeter of 298 linear feet requiring 4 samples from around the edges of the area, following the 200 square foot rule. We believe we can obtain an accurate representation of the ex-situ treatment area by collecting samples from every 400 square feet from within the treatment area. The number of samples collected from the edges of the area will increase to 8 samples. The illustration of these samples can be seen on the Proposed Sampling map included in Figure 3.

Approval Request

Raybaw respectfully requests that this proposed sampling plan for the two remaining open historic incidents, nMLB0912449922 and nMLB1125557019, be approved. Raybaw has complied with the applicable requirements outlined in 19.15.29.12 NMAC.

Should you have any questions or need additional information, please feel free to contact:
 Raybaw Operating, LLC. – Nancy Winn at 281-793-5452 or nwinn@sbcglobal.net.
 Sapec-Eco, LLC. – Tom Bynum at 580-748-1613 or tombynum@sapec-eco.com.

Attachments

Figures

- 1- EnviroClean Summary
- 2- Pima Summary
- 3- Proposed Sampling Map
- 4- Karst Map
- 5- Topographic Map
- 6- Location Map
- 7- LPC-Dune Lizard Maps
- 8- Plant/Wildlife Map

Appendices

- Appendix A – Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – Initial C-141 Forms & NMOCD Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports

Figures

1 – EnviroClean Summary

2 – Pima Summary

3 – Proposed Sampling Map

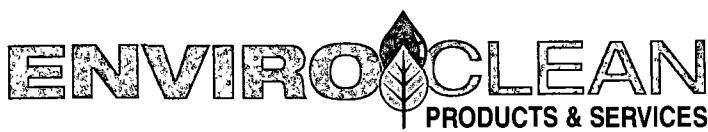
4 – Karst Map

5 – Topographic Map

6 – Location Map

7 – LPC-Dune Lizard Maps

8 – Plant/Wildlife Map

Visit our website at www.envirocleansps.com

Chronology of Events
Devon Energy Corporation
Shugart 23 Federal Com. #1
Sec. 23-T18S-R31E
Eddy County, New Mexico

10/11/11

- 12:30 p.m. Arrive on the location. Hold safety meeting.
- 12:45 p.m. Begin collecting soil samples.
- 1:30 p.m. Completed sampling. Depart from the location en route to Devon TNT 6 Federal Com #1 location.

Sample: 001			
Sample Date	Method	Test	Results (mg/kg)
10/11/11	BTEX 8021B	Benzene	17.45
10/11/11	BTEX 8021B	Toluene	207
10/11/11	BTEX 8021B	Ethylbenzene	130
10/11/11	BTEX 8021B	Total Xylenes	299
10/11/11	TPH 8015M	GRO C6-C10	2,880
10/11/11	TPH 8015M	DRO >C10-C28	88,800
10/11/11	TPH 8015M	EXT DRO >C28-C35	2,910

Sample: 001A			
Sample Date	Method	Test	Results (mg/kg)
10/11/11	BTEX 8021B	Benzene	0.746
10/11/11	BTEX 8021B	Toluene	5.23
10/11/11	BTEX 8021B	Ethylbenzene	2.26
10/11/11	BTEX 8021B	Total Xylenes	4.60
10/11/11	TPH 8015M	GRO C6-C10	<100
10/11/11	TPH 8015M	DRO >C10-C28	4,210
10/11/11	TPH 8015M	EXT DRO >C28-C35	<100

Sample: 001B			
Sample Date	Method	Test	Results (mg/kg)
10/11/11	BTEX 8021B	Benzene	0.208
10/11/11	BTEX 8021B	Toluene	5.20
10/11/11	BTEX 8021B	Ethylbenzene	3.65
10/11/11	BTEX 8021B	Total Xylenes	9.36
10/11/11	TPH 8015M	GRO C6-C10	<100
10/11/11	TPH 8015M	DRO >C10-C28	4,100
10/11/11	TPH 8015M	EXT DRO >C28-C35	<100

Sample: 002			
Sample Date	Method	Test	Results(mg/kg)
10/11/11	BTEX 8021B	Benzene	0.110
10/11/11	BTEX 8021B	Toluene	1.58
10/11/11	BTEX 8021B	Ethylbenzene	0.949
10/11/11	BTEX 8021B	Total Xylenes	6.05
10/11/11	TPH 8015M	GRO C6-C10	<100
10/11/11	TPH 8015M	DRO >C10-C28	18,900
10/11/11	TPH 8015M	EXT DRO >C28-C35	350

Sample: 002A			
Sample Date	Method	Test	Results(mg/kg)
10/11/11	BTEX 8021B	Benzene	8.85
10/11/11	BTEX 8021B	Toluene	51.7
10/11/11	BTEX 8021B	Ethylbenzene	19.5
10/11/11	BTEX 8021B	Total Xylenes	194
10/11/11	TPH 8015M	GRO C6-C10	12,800
10/11/11	TPH 8015M	DRO >C10-C28	54,800
10/11/11	TPH 8015M	EXT DRO >C28-C35	1,330

2/5/12

- 1:00 p.m. Arrive at the yard. Load equipment and supplies.
 1:40 p.m. Depart from the yard en route to the hotel.
 11:30 p.m. Arrive at the hotel in New Mexico.

2/6/12

- 4:00 p.m. Depart from another location en route to the location.
 4:20 p.m. Arrive on the location, unload equipment, and hold safety meeting.
 4:30 p.m. Begin excavating the impacted soil inside of the tank battery with the mini-excavator to a maximum depth of 3'. Begin building a bio-cell to contain the excavated impacted soil.
 5:30 p.m. Completed building the berm for the bio-cell. Begin hauling the impacted soil from the tank battery to the bio-cell with a tracloader.
 6:50 p.m. Discontinued operations. Depart from the location en route to the hotel.
 7:30 p.m. Arrive at the hotel.

2/7/12

- 6:00 a.m. Depart from the hotel en route to the location.
- 7:00 a.m. Arrive on the location. Hold safety meeting.
- 7:10 a.m. Resume excavating the impacted soil inside of the tank battery and hauling the impacted soil to the bio-cell. The impacted soil in the bio-cell will be spread at a depth of 6-8 inches.
- 9:30 a.m. Completed excavating. Begin tilling the base of the excavation with the tracloader and tiller attachment. Begin scraping and stockpiling soil from the location. The soil will be used as backfill for the excavation.
- 12:10 p.m. Completed tilling the base of the excavation. Begin tilling the impacted soil in the bio-cell.
- 1:45 p.m. Completed tilling the impacted soil in the bio-cell. Begin treating the base of the excavation with an EnviroClean solution.

EnviroClean is a blend of surfactants and wetting agents that is listed on the EPA's National Contingency Plan (NCP) as a Surface Washing Agent. Treating with the EnviroClean desorbs and breaks up the hydrocarbon in the soil in a manner that makes it more available to the naturally occurring bacteria to utilize it as a food source. This increase in bioavailability expedites the time frame in which the hydrocarbons are biodegraded in the soil.
- 3:45 p.m. Completed treating the base of the excavation. Begin treating the impacted soil in the bio-cell with an EnviroClean solution. Begin backfilling the excavated area utilizing clean soil that was stockpiled from the location.
- 5:30 p.m. Completed treating the impacted soil in the bio-cell. Completed backfilling. Depart from the location en route to the hotel.
- 7:00 p.m. Arrive at the hotel.

Shugart 23 Fed Com #1

Raybaw Operating

API #30-015-30448

Eddy County, NM

nMLB1125557019

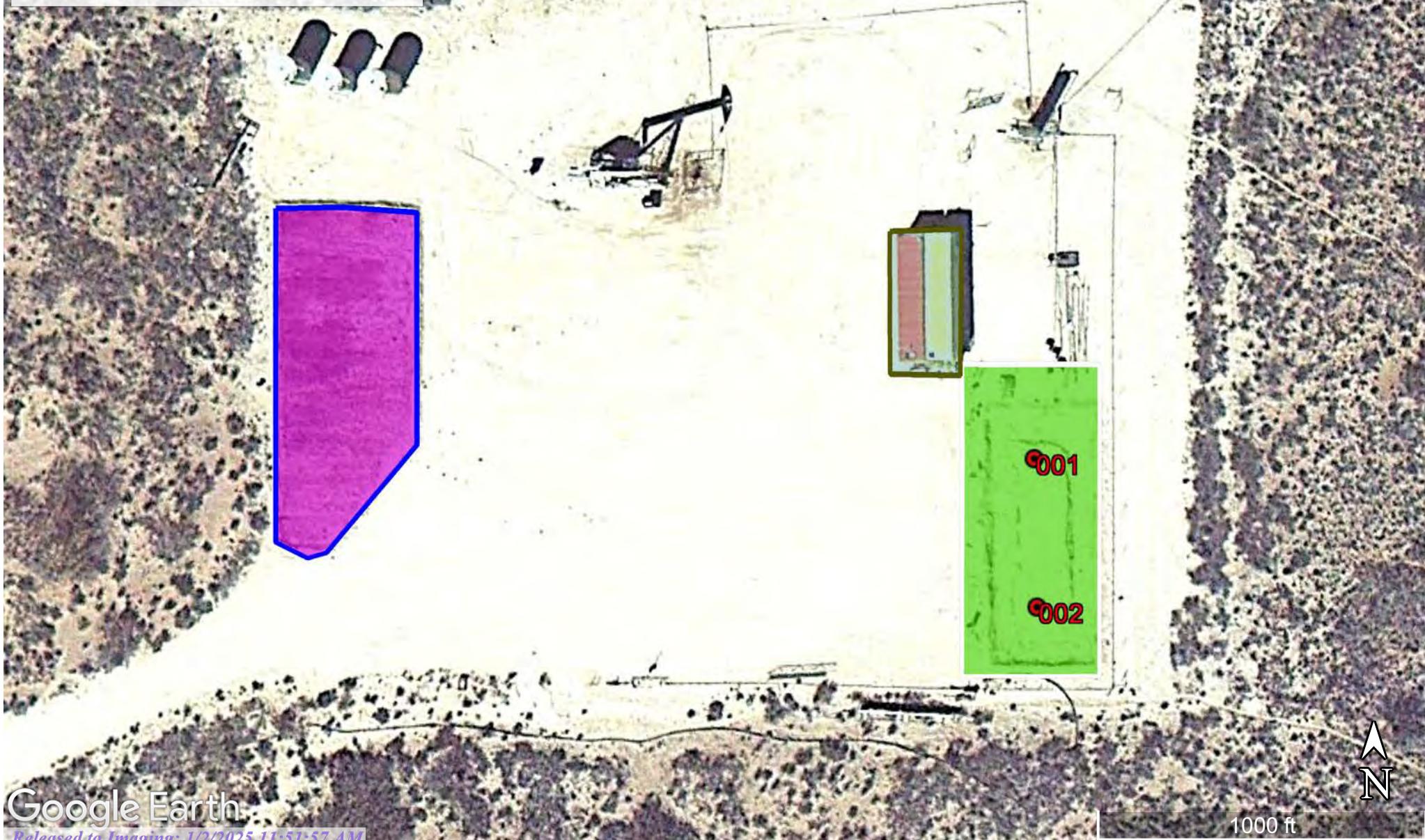
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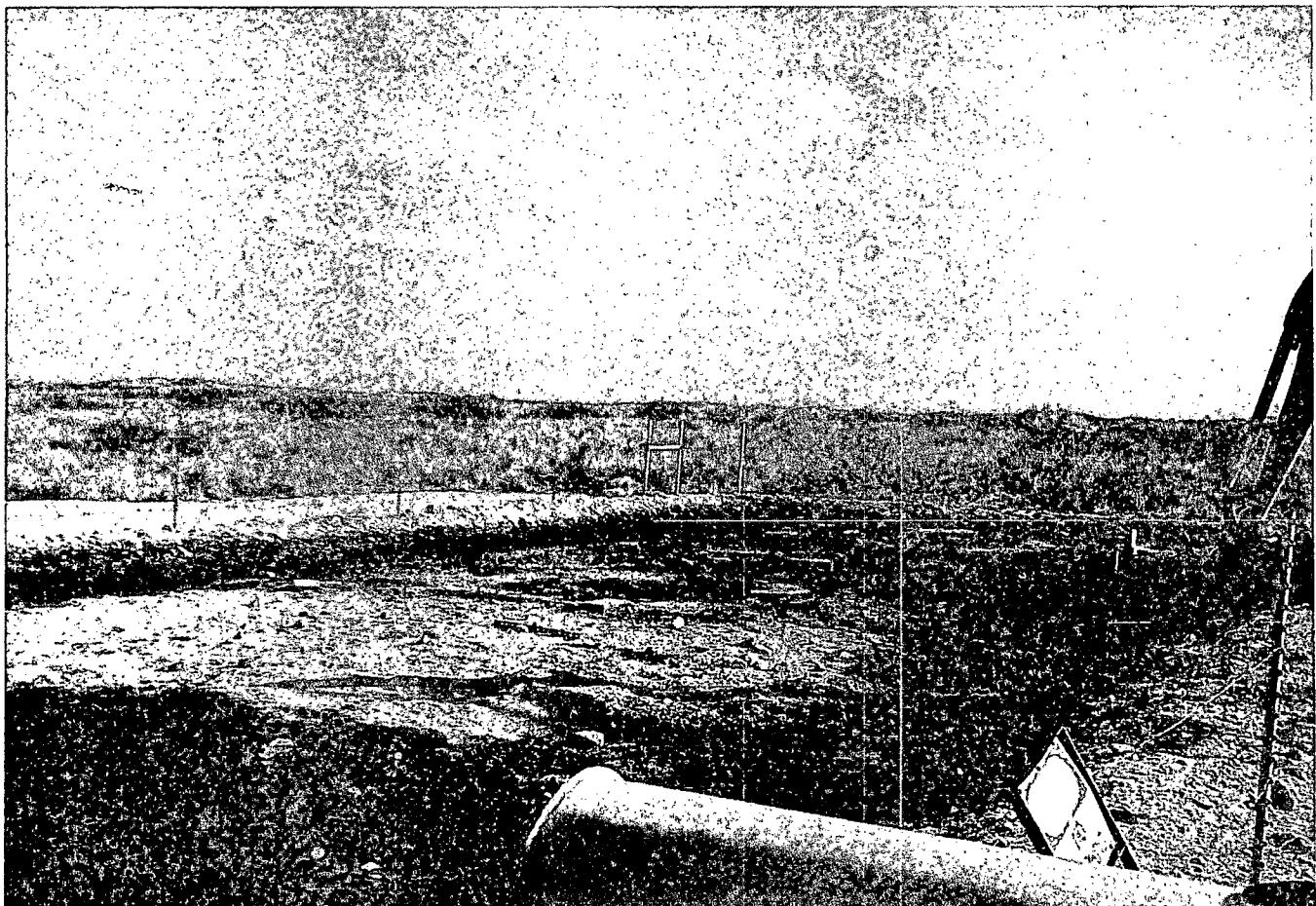
EnviroClean Remediation Map

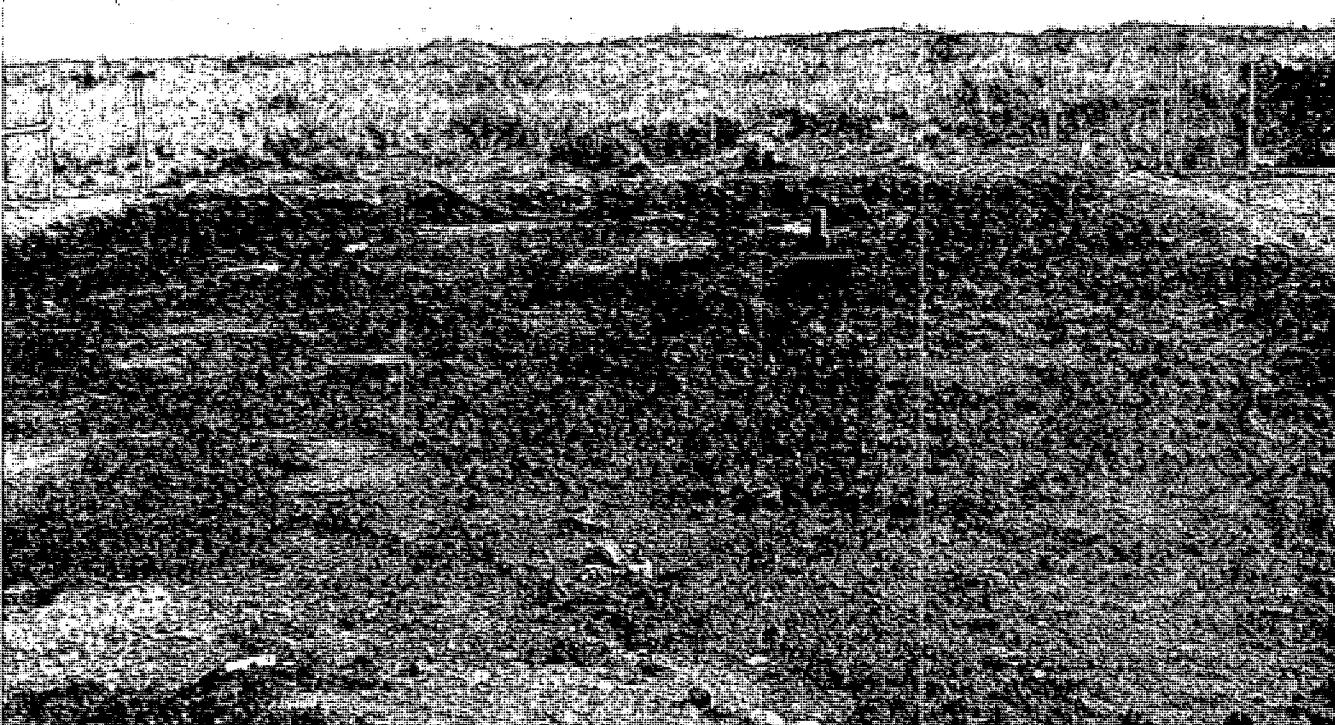
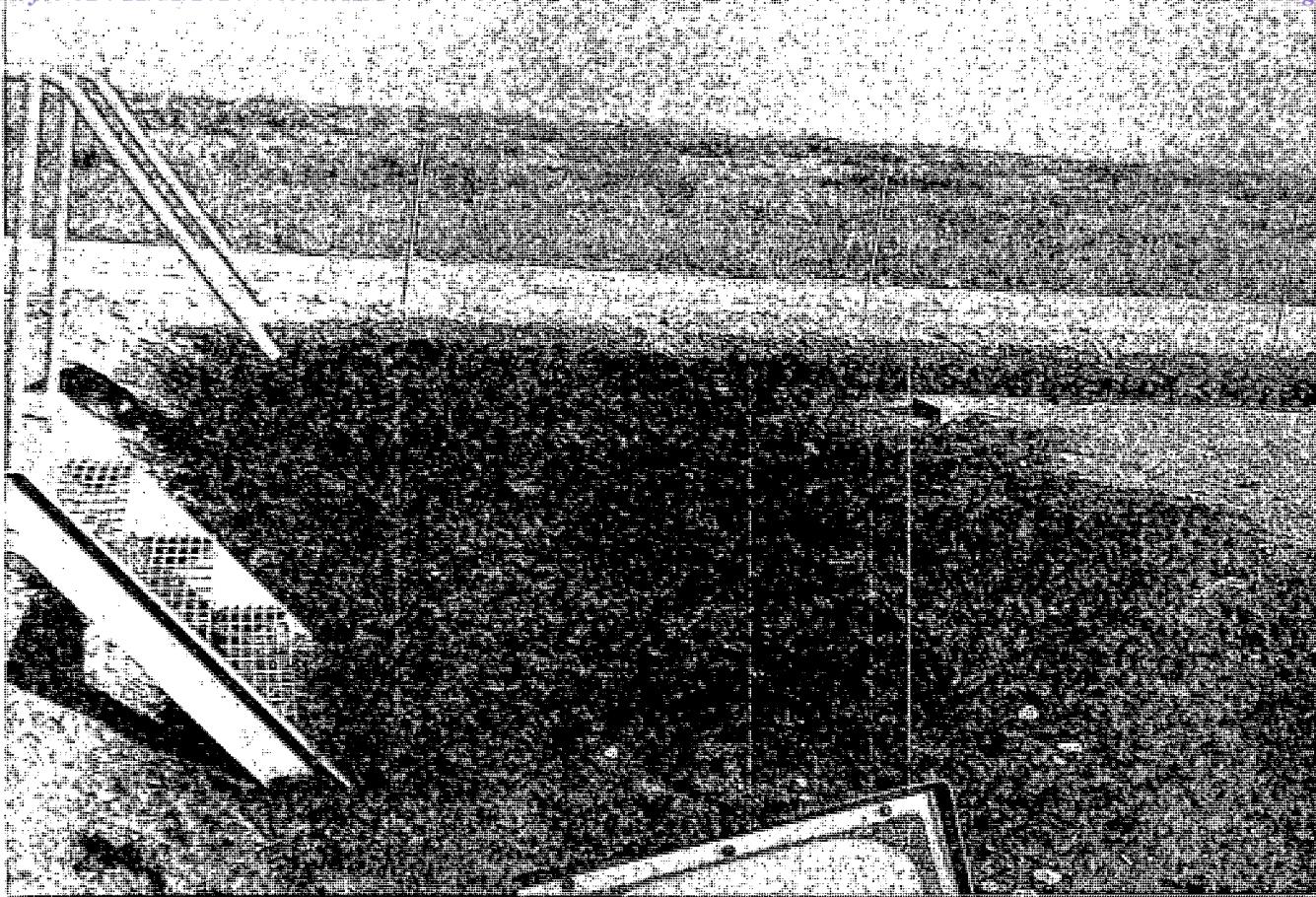
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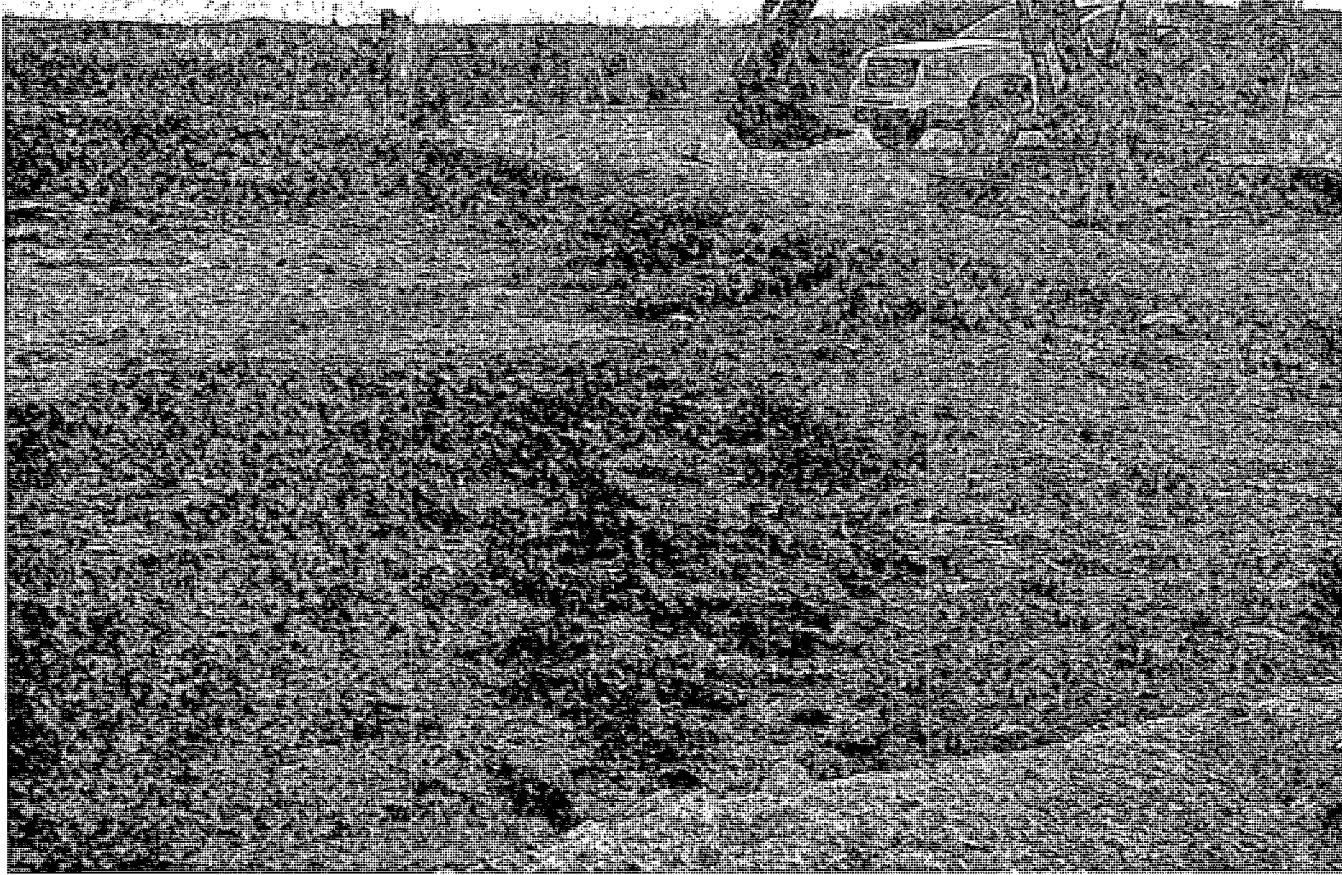
Legend

- Area Treated by EnviroClean - 4,725 sqft
- Bio-Cell Area - 4,765 sqft
- Frac Tanks
- Initial soil sample points

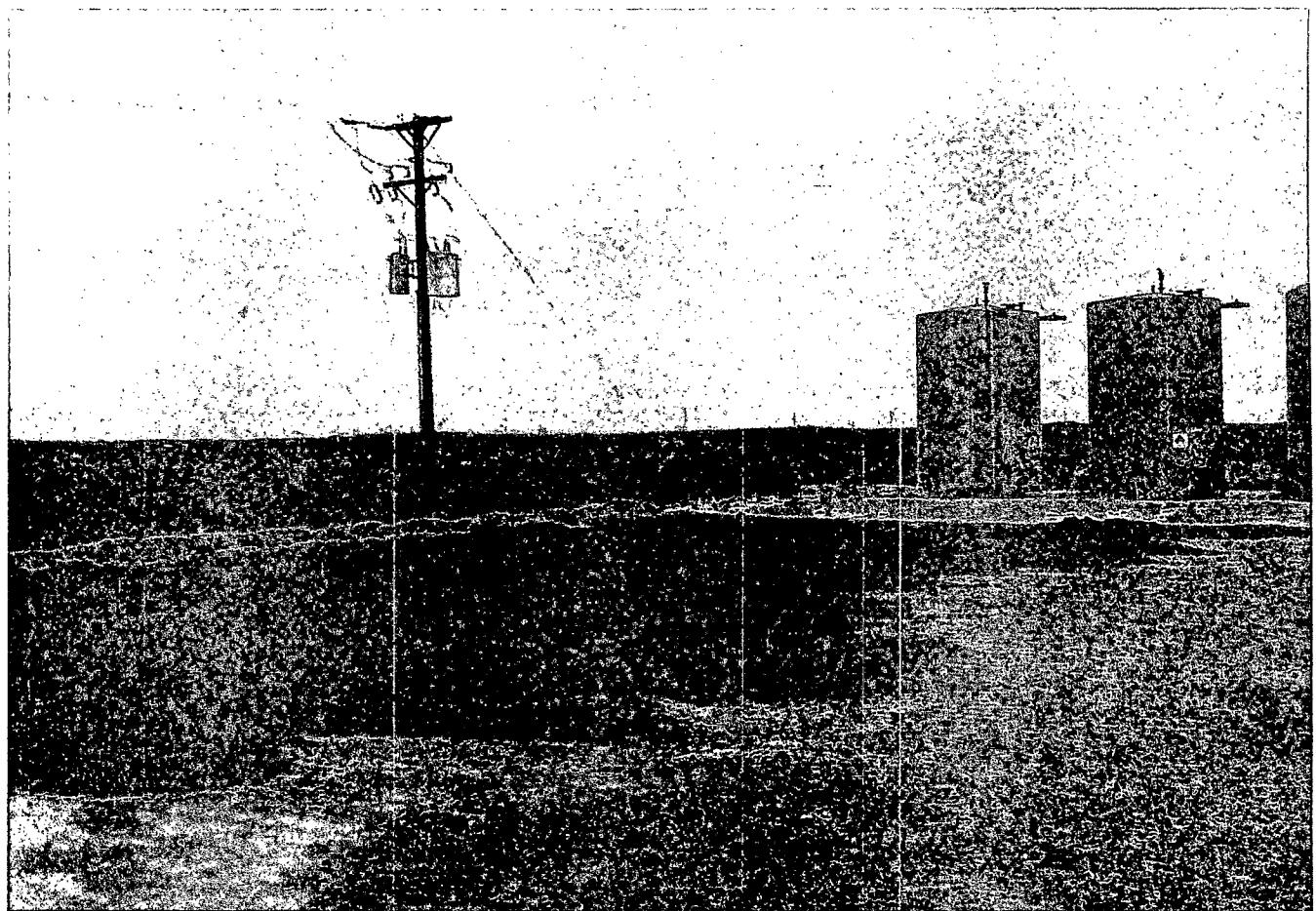
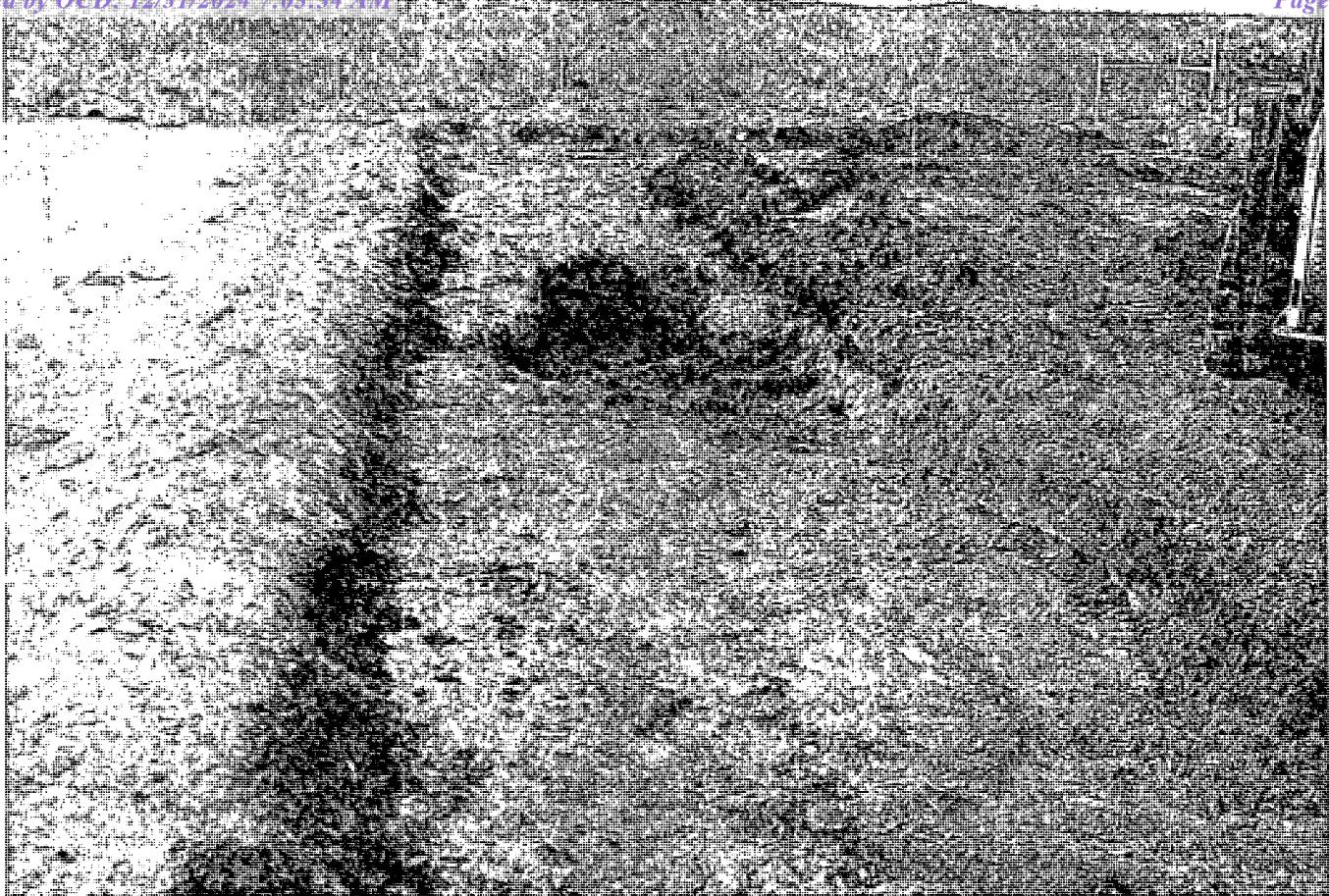


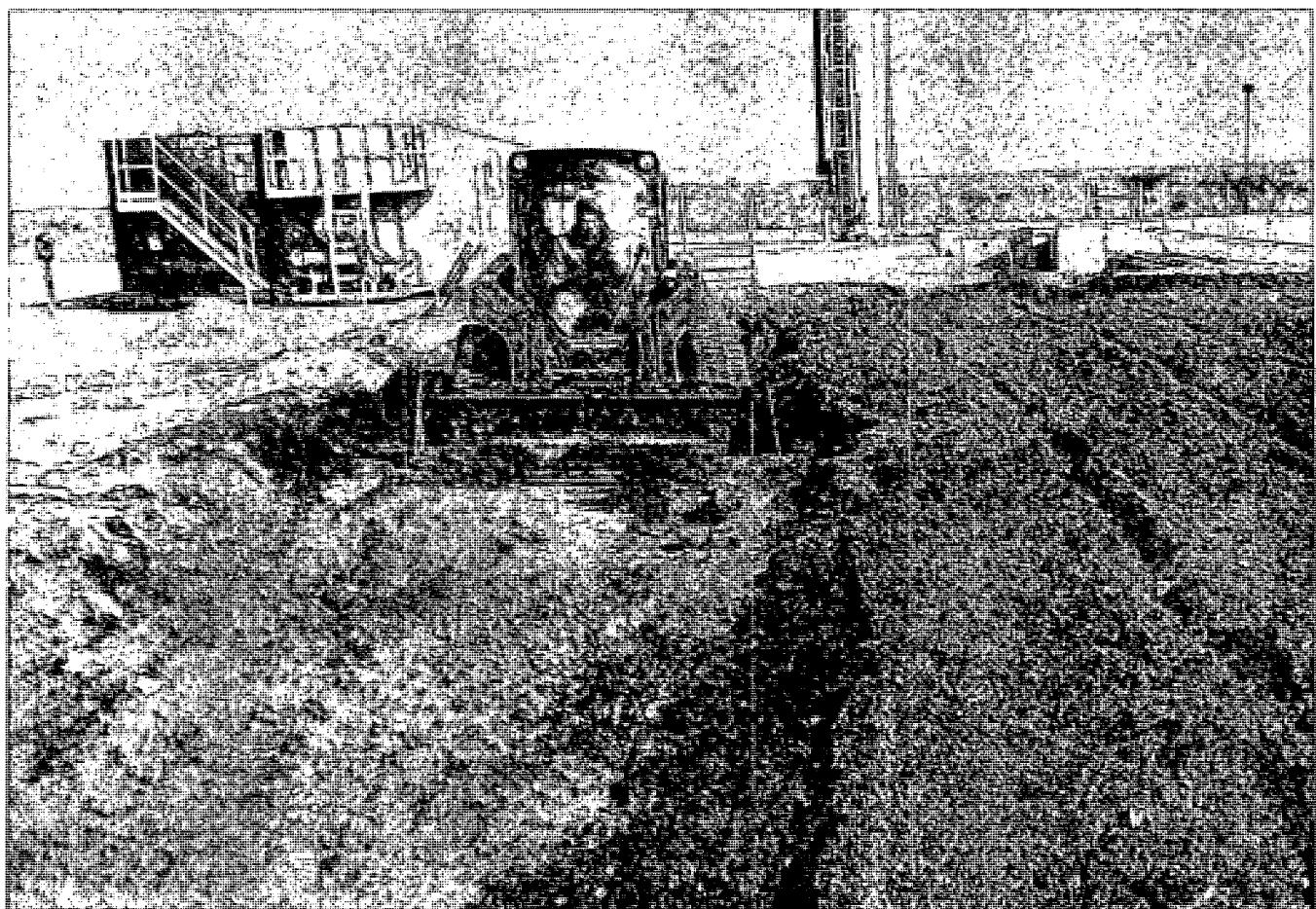
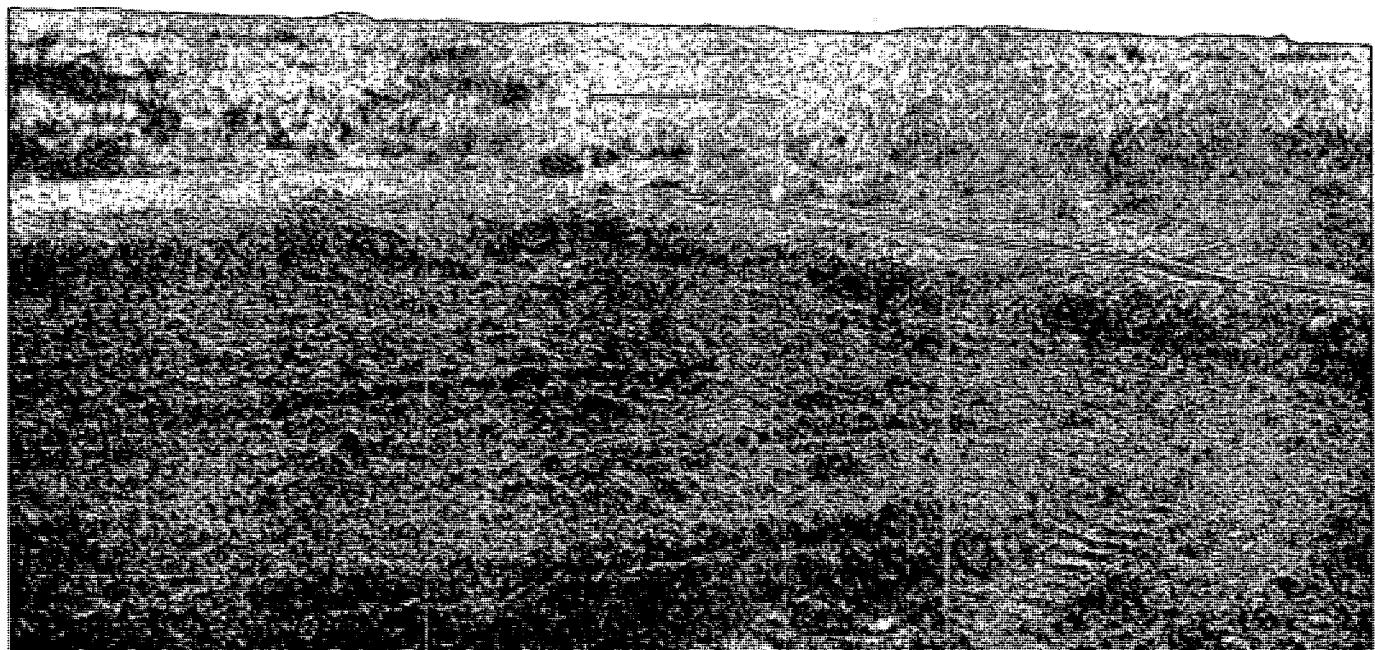


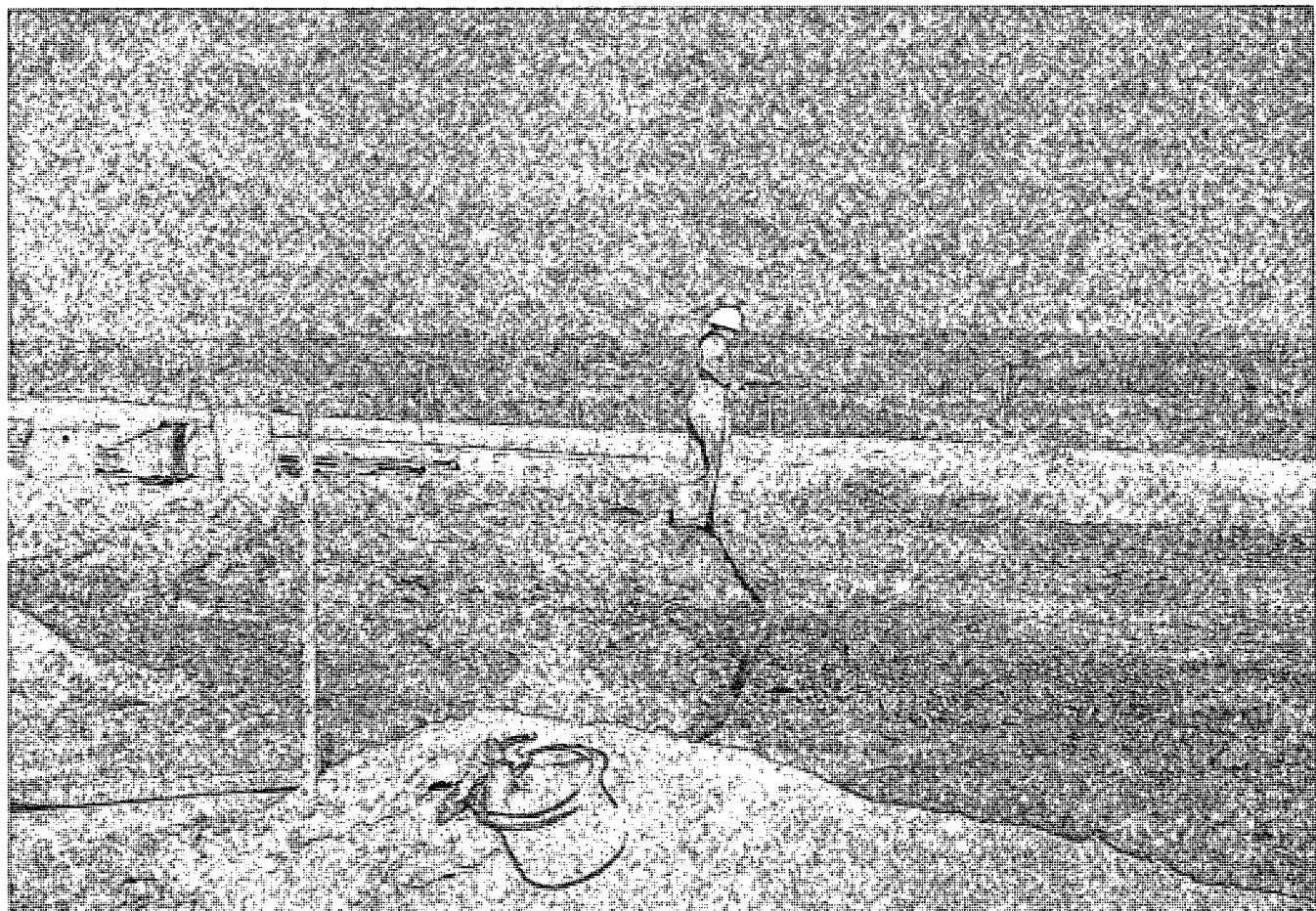
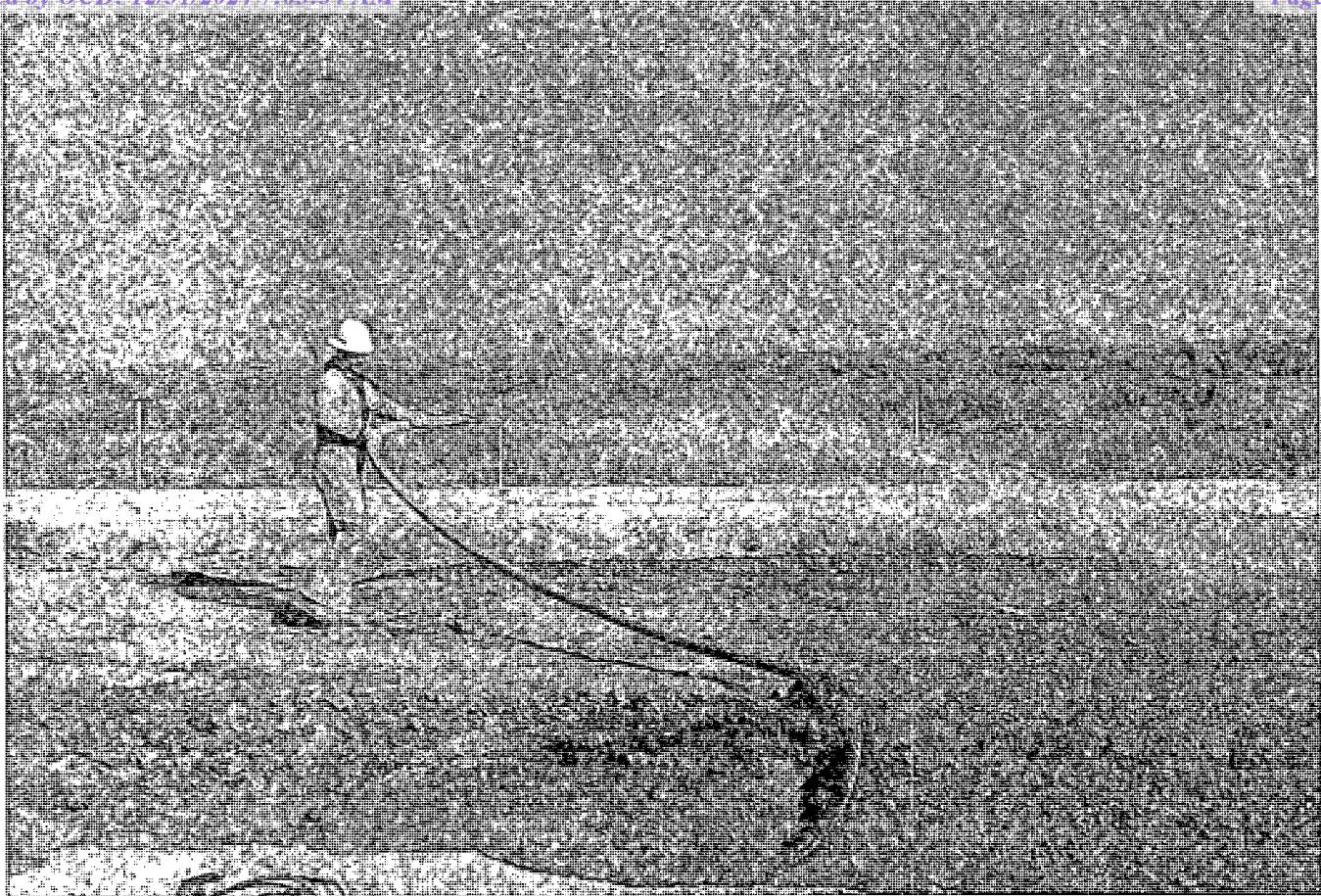


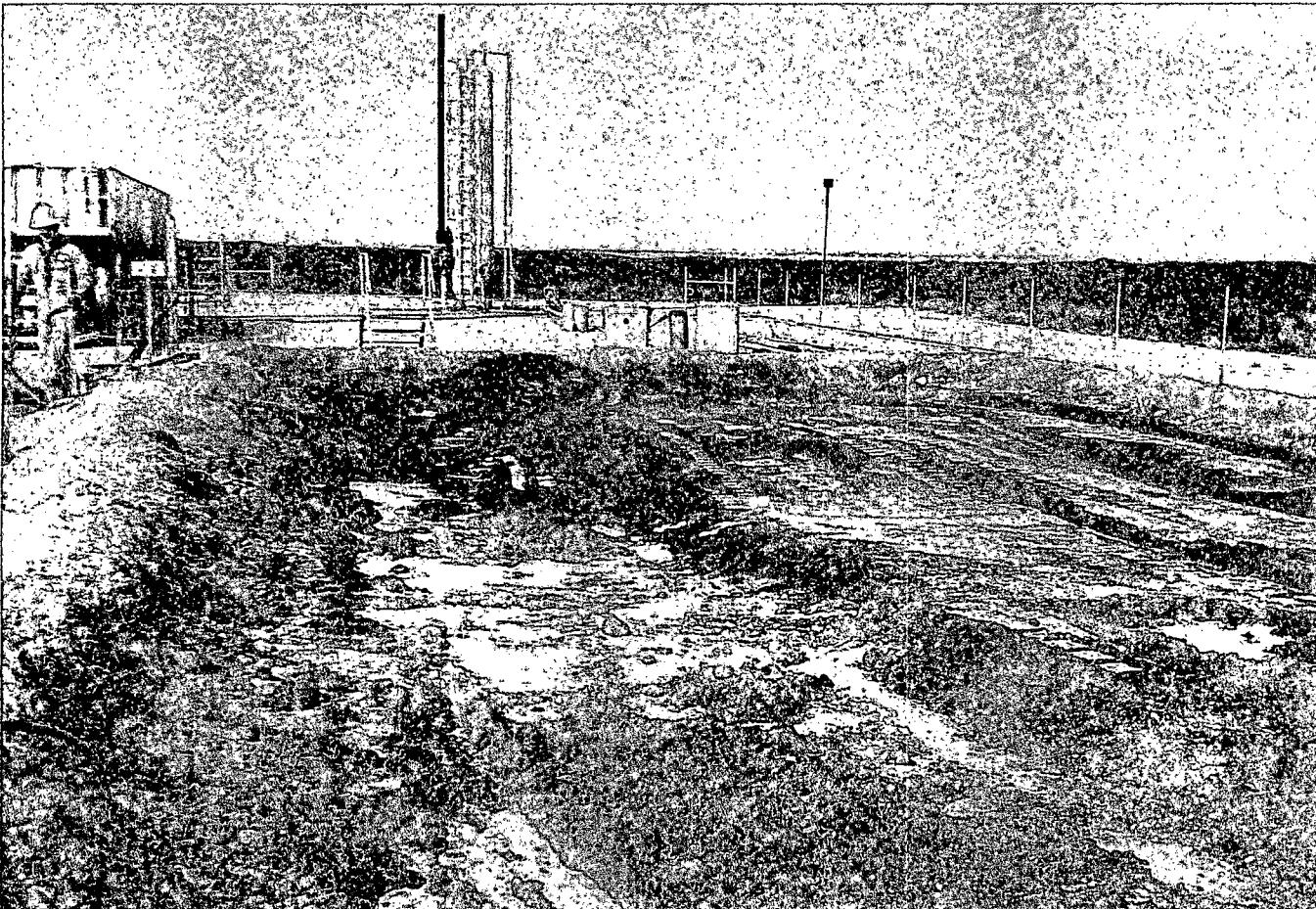


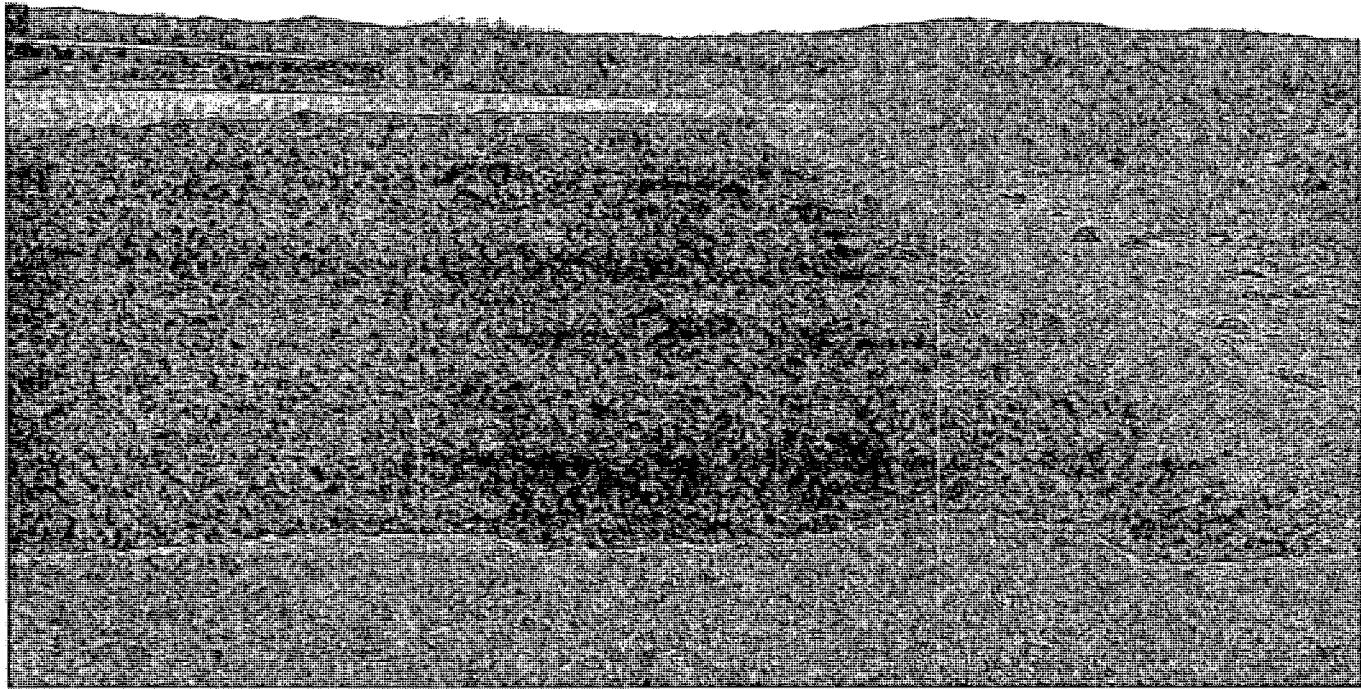


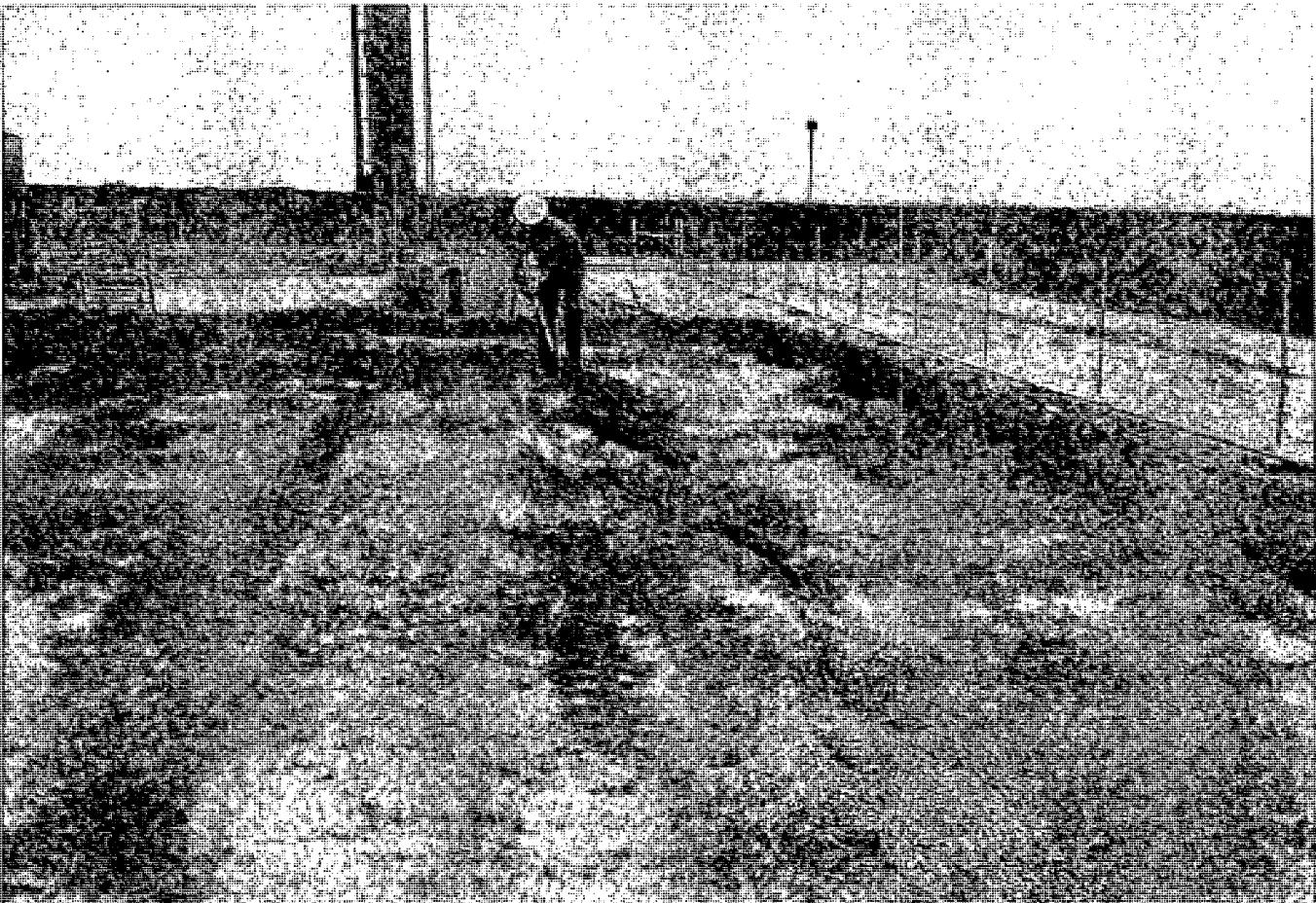
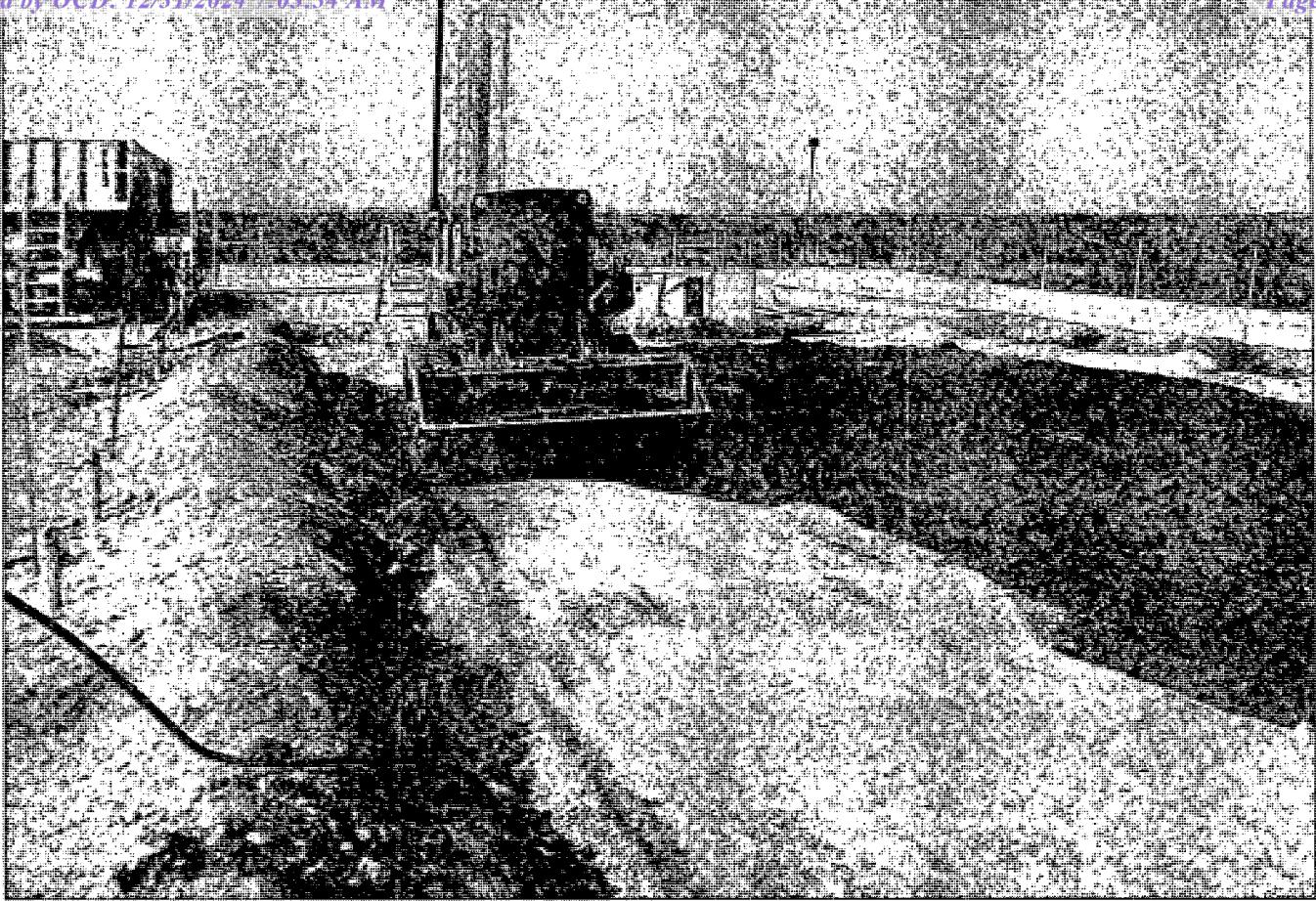


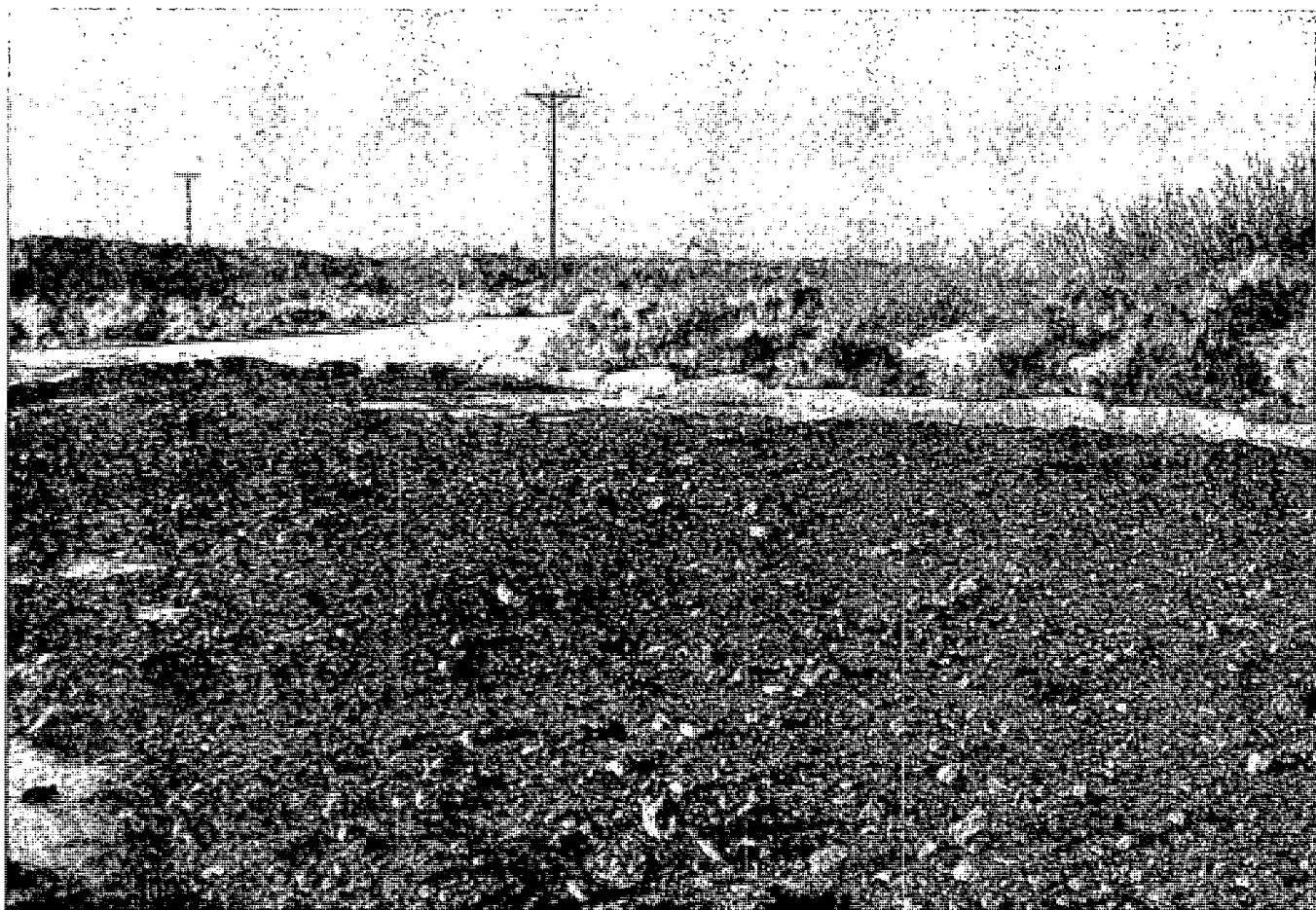
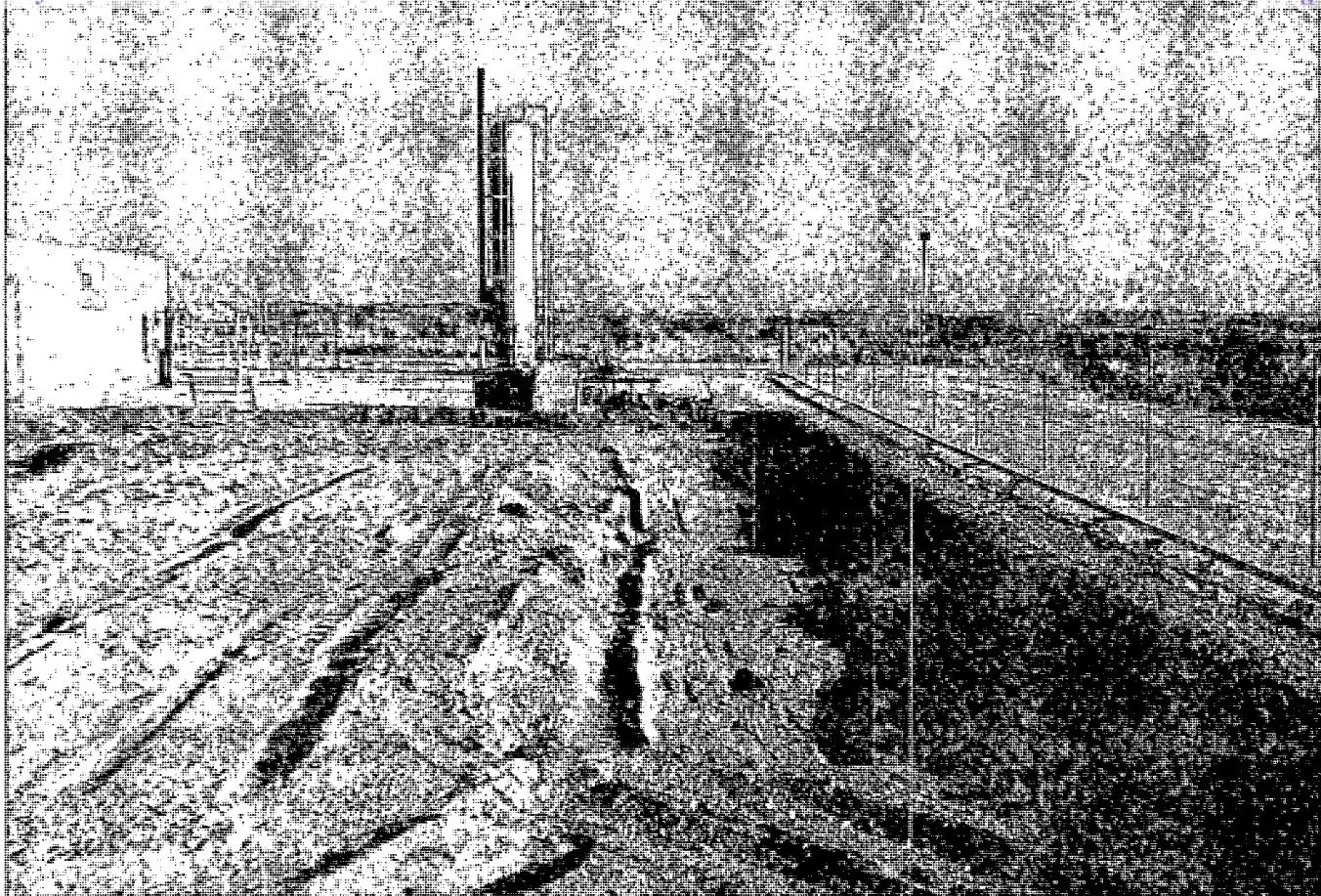














Pima Environmental Services, LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
575-964-7740

Request for Incident Closure

Re: Site Assessment and Closure Report
Shugart 23 Fed Com #1
API No. 30-015-30448
GPS: Latitude 32.7303581 Longitude -103.838028
UL "J", Sec. 23, T18S, R31E
Eddy County, NM
NMOCD Ref. No. 2RP-896

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and has prepared this Closure Report for an oil and produced water release that occurred at the Shugart 23 Fed Com 1 (Shugart). The initial C-141 was submitted on 9-12-11 (Appendix C). This incident was assigned 2RP-896, Incident ID NMLB1125557019 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Shugart is located approximately thirty-one (31) miles northeast of Carlsbad, NM. This spill site is in Unit J, Section 23, Township 18S, Range 31E, Latitude 32.7303581, Longitude -103.838028, Eddy County, NM.

Release Information

2RP-896: On September 4, 2011, a hole in the tank was discovered and released 70 bbls of oil. A vac truck was dispatched and recovered the 31 bbls of oil.

Site Assessment and Soil Sampling Results

On July 8, 2020, Pima Environmental conducted a site assessment and obtained soil samples. The laboratory results of this sampling event can be found in the following data table.

7-8-20 Sampling Event

NMOCDD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
Sample Date 7-8-20		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
S-2	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
S-3	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
S-4	0-6"	ND	ND	ND	14	ND	14	1800
	1	ND	ND	ND	420	540	960	1500
	2	ND	ND	ND	1600	2100	3900	950
S-5	0-6"	ND	ND	ND	1000	1500	2500	950
	1	ND	ND	ND	1100	1600	2700	1300
	2	ND	ND	ND	480	810	1290	690
S-6	0-6"	ND	ND	ND	550	590	1140	200
	1	ND	ND	ND	910	1700	2610	110
	2	ND	ND	ND	880	1400	2280	110
S-7	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
S-8	0-6"	ND	ND	ND	19	ND	19	ND
	1	ND	ND	ND	88	130	218	ND
	2	ND	ND	ND	380	760	1140	ND
S-9	0-6"	ND	ND	ND	1700	2100	3800	1000
	1	ND	ND	ND	2300	2600	4900	870
S-10	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	390	830	1220	ND
	2	ND	ND	ND	150	350	500	76
S-11	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
S-12	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND
S-13	0-6"	ND	ND	ND	ND	ND	ND	ND
	1	ND	ND	ND	ND	ND	ND	ND
	2	ND	ND	ND	ND	ND	ND	ND

ND-Analyte Not Detected

Remediation Activities

Pima returned to the site and retreated the soil with a 10% Micro blaze solution injection and topical treatment. We allowed 60 days for the microbes to take affect and returned to the site and re-sampled. The results of our sampling event are presented on the following data tables.

10-21-20 Sampling Event

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')					
Sample Date 10-21-20					
Sample ID	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg
S-4	0-3	ND	11	79	90
S-5	0-1	ND	ND	ND	ND
S-6	0-1	ND	ND	ND	ND

ND-Analyte Not Detected

11-25-20 Sampling Event

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')					
Sample Date 11-25-20					
Sample ID	Depth (BGS)	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg
S-9	0-1	ND	ND	ND	ND

ND-Analyte Not Detected

Closure Request

After careful review, Pima requests that the incident, NMLB1125557019, be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Chris Jones at 575-964-7740 or chris@pimaoil.com.

Respectfully,

Chris Jones
Environmental Professional
Pima Environmental Services, LLC

Attachments

Figures:

1- Site Map

Appendices:

Appendix A- Photographic Documentation

Appendix B- Final C-141

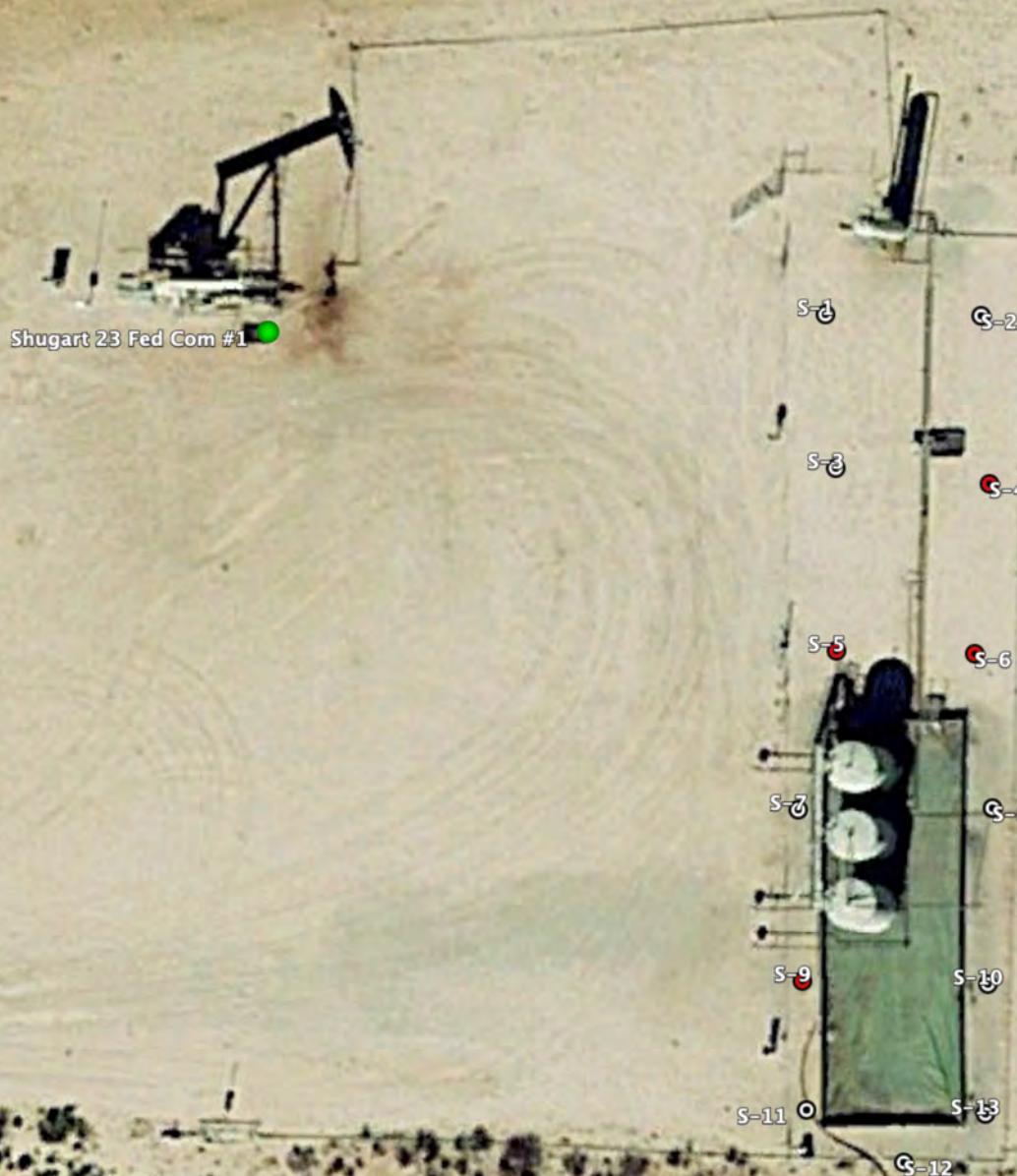
Appendix C- Laboratory Results

Devon Energy

Shugart 23 Fed Com #1
API 30-015-30448
Eddy County, NM
Site Map

Legend

- Samples
- Shugart 23 Fed Com #1



N

Google Earth

100 ft

Photographic Documentation

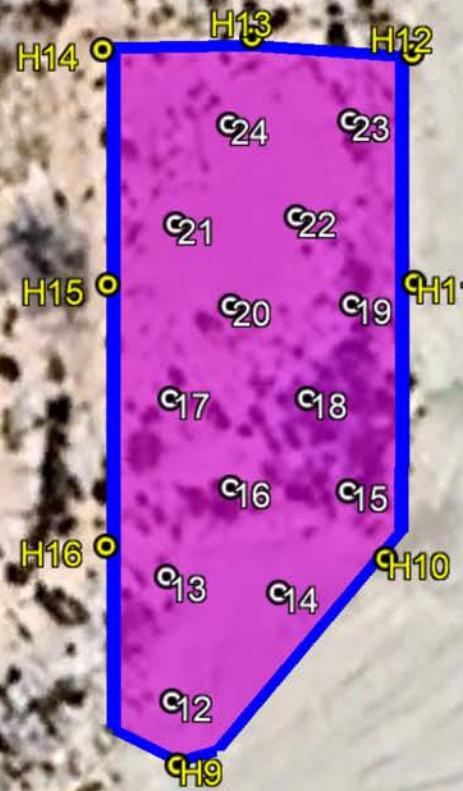


Shugart 23 Fed Com #001

Raybaw Operating
API #30-015-30448
Eddy County, NM
nMLB1125557019
nMLB0912449922
Proposed Sampling Map

Legend

- Area Treated by EnviroClean - 4,725 sqft
- Areas MicroBlazed by Pima - 1,545 sqft
- Bio-Cell Area - 4,765 sqft
- Horizontal delineation samples
- Vertical delineation samples



32.729909, -103.838335



Shugart 23 Fed Com #1

Raybaw Operating
API #30-015-30448
Eddy County, NM
nMLB1125557019
nMLB0912449922
Karst Map

Legend

- High Karst (Red)
- Low Karst (Green)
- Medium Karst (Blue)

Shugart 23 Fed Com 1

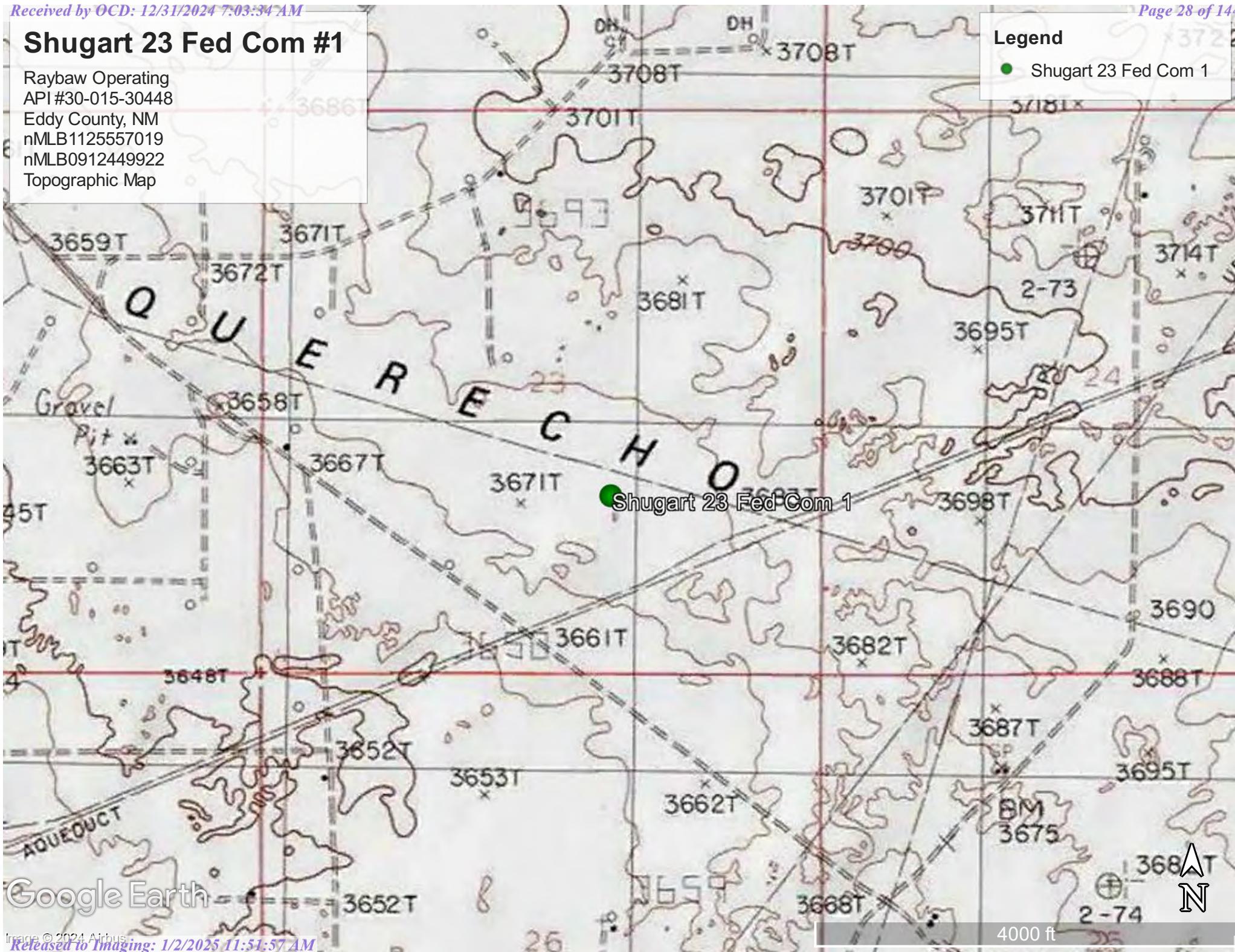
Google Earth

N

3 mi

Shugart 23 Fed Com #1

Raybaw Operating
API #30-015-30448
Eddy County, NM
nMLB1125557019
nMLB0912449922
Topographic Map

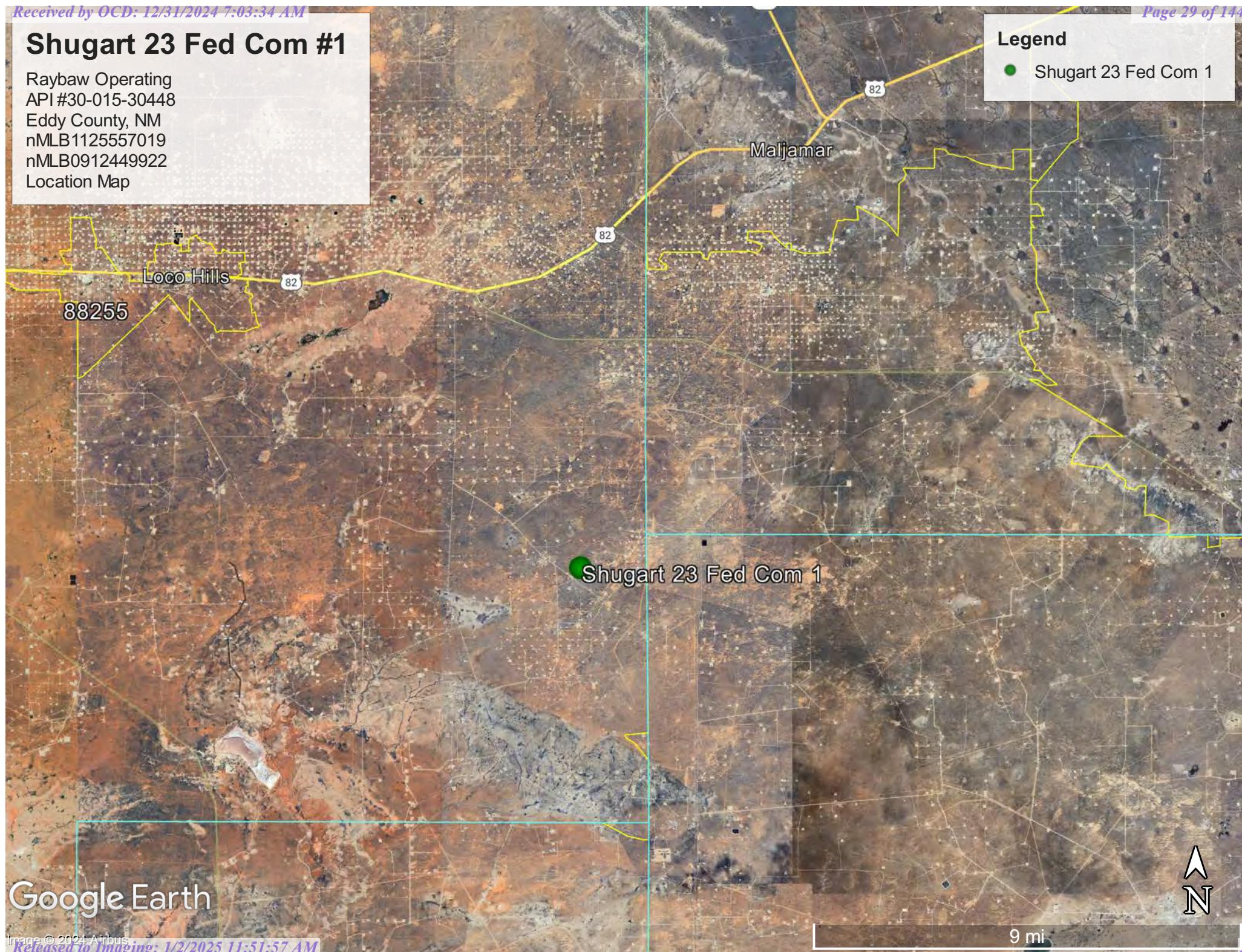


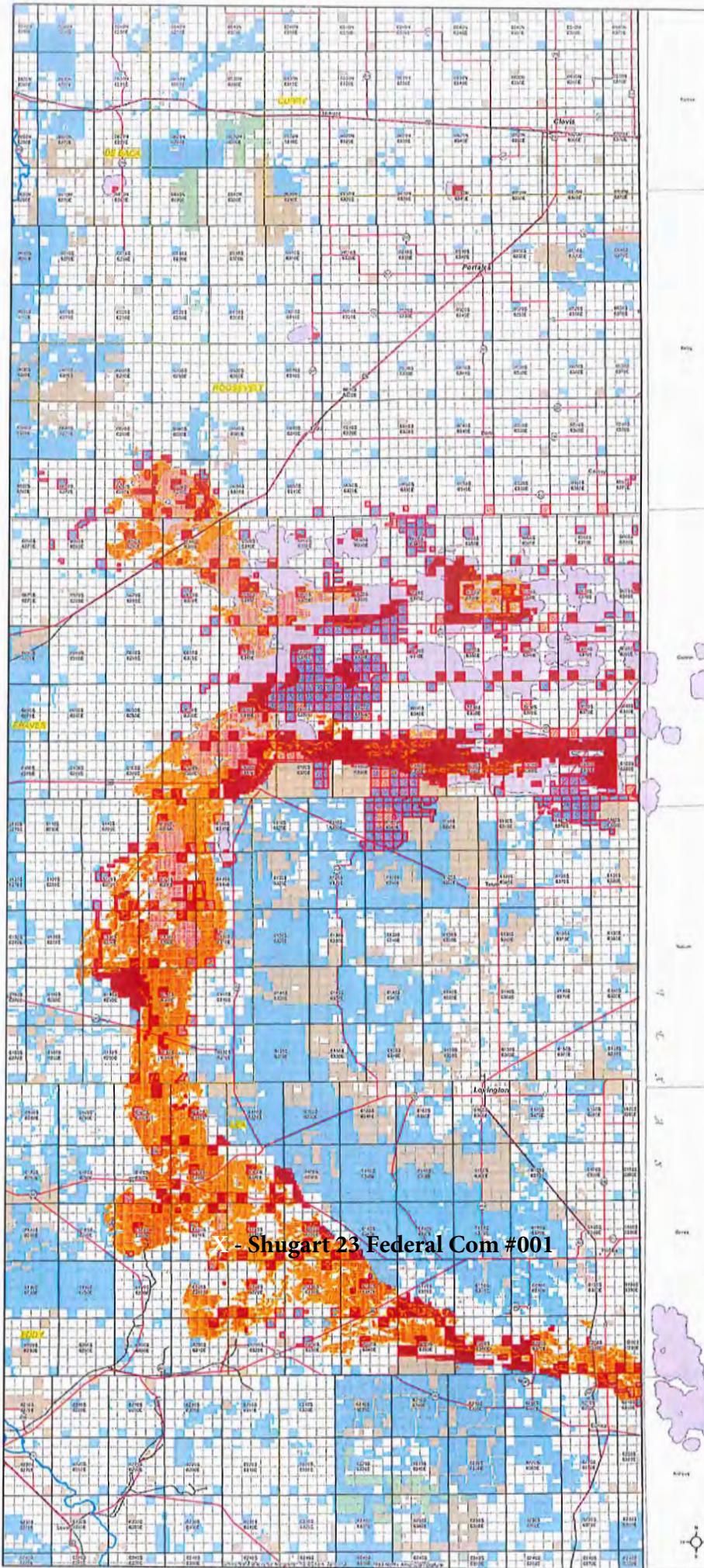
Shugart 23 Fed Com #1

Raybaw Operating
API #30-015-30448
Eddy County, NM
nMLB1125557019
nMLB0912449922
Location Map

Legend

- Shugart 23 Fed Com 1





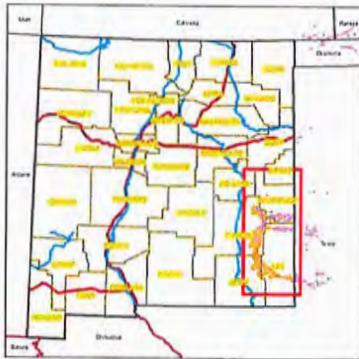
Ray Powell, M.S., D.V.M.
Commissioner of Public Lands
505-827-5760
www.nmstatedlands.org

March 20, 2014 Revisions
to Lesser Prairie-Chicken
and Sand Dune
Sagebrush Lizard
CCAA CI-OGOP-025

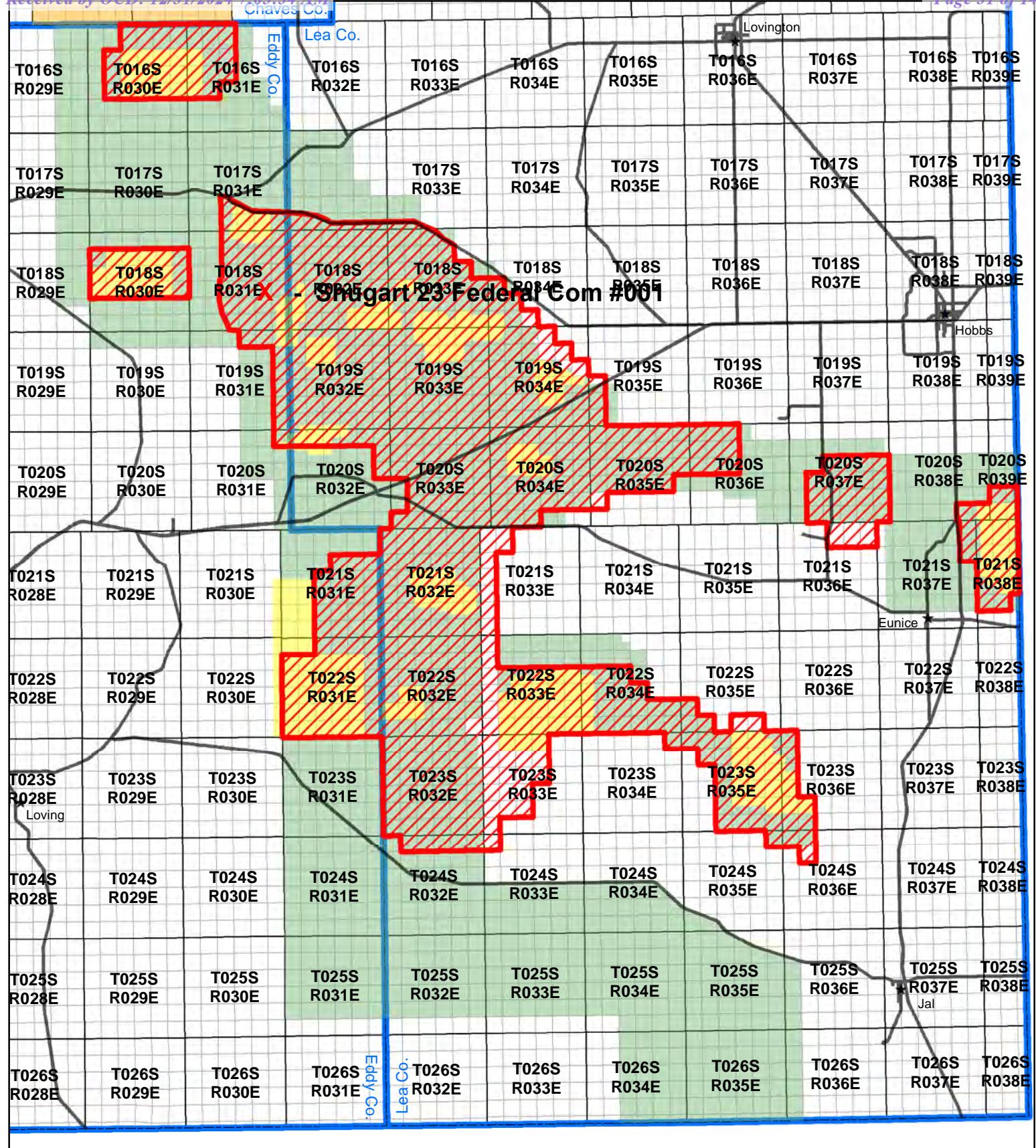
10 5 0 10 Miles

Legend

- Additional State Trust Lands Inclusion
- Rivers
- Towns
- County Seats
- Roads
 - Interstate Highway
 - US Highway
 - State Highway
- Railroads
- Trust Lands within CCAA, March 2012
- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate
- Core Habitat, Lesser Prairie Chicken
- Updated Sand Dune Lizard Habitat



The New Mexico State Land Office assumes no responsibility or liability for, or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer.



LPC Timing Area 2021

Southern Map



- NM Major Roads
- LPC Timing Restriction Area
- NM Counties

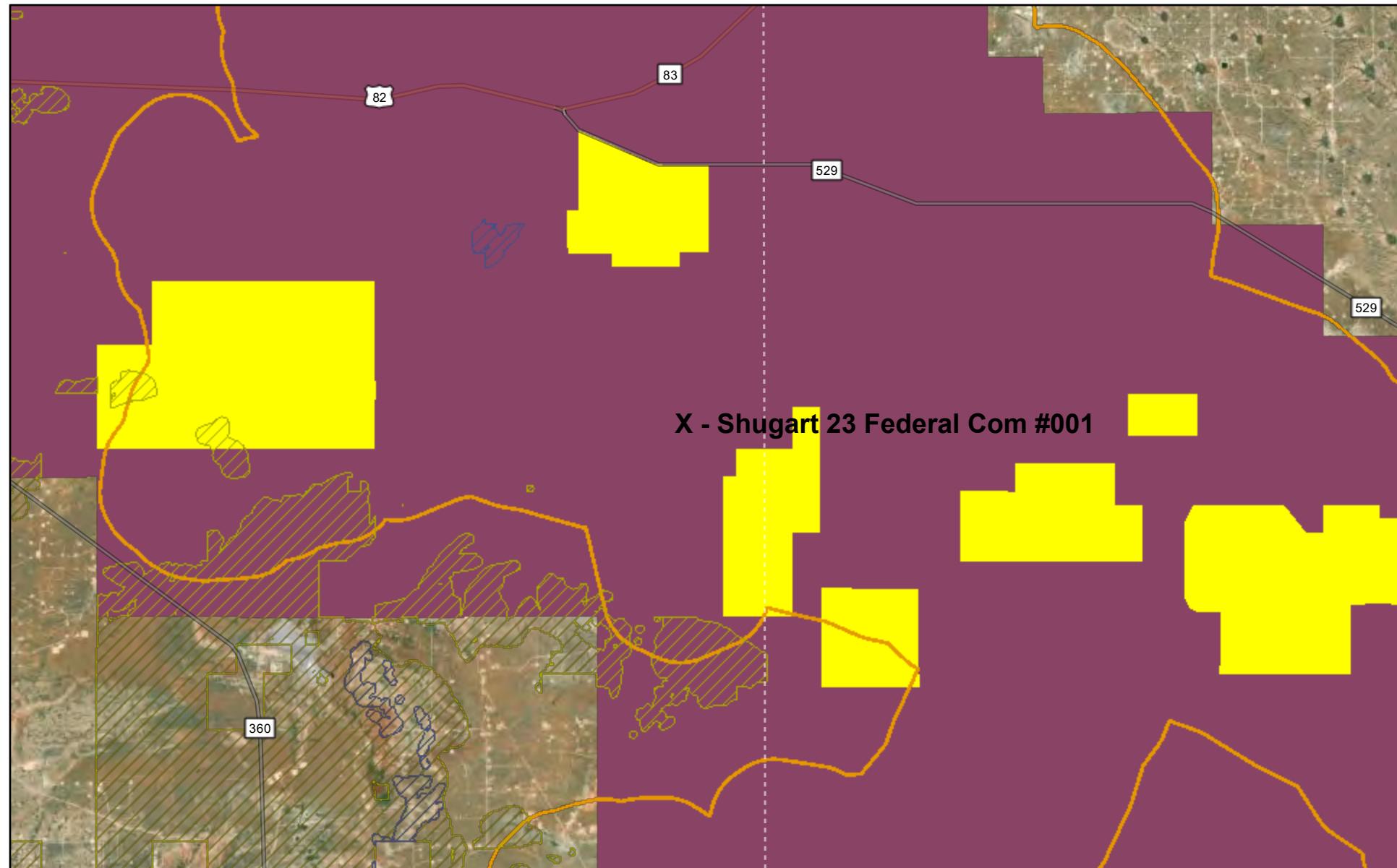
- RMPA Zones
- Habitat Area
- Sparse and Scattered Population Area
- Isoated Population Area

This Timing Restriction Map
only applies to Carlsbad FO

No Warranty is made by the Bureau of Land Management as to the accuracy of the information contained in this map. It is intended for use or aggregate use with other data. Original data was compiled from various sources and may not meet the standards of National Map Accuracy Standards. This information may be updated without notice.



Plant/Wildlife Map



12/20/2024

Potential Habitat (Planning Area Only)

Scheer's beehive cactus

Tharp's blue-star

Dunes Sage Brush Lizard Habitat

Lesser Prairie Chicken Habitat

Habitat Evaluation Area

Isolated Population Area

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

Citations

38m Resolution Metadata

1:187,205

0 1.25 2.5 5 mi
0 2 4 8 km

Earthstar Geographics, Texas Parks & Wildlife, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Bureau of Land

Appendix A

Water Surveys

Water-Related Maps



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 02011 POD1		CP	ED	SW	SW	SW	10	19S	31E	606373.4	3615144.8		7226	105		
CP 01985 POD1		CP	ED	NE	SE	NE	17	19S	31E	604666.5	3614438.3		8581	55		
RA 11590 POD1		RA	ED	NE	NW	SW	32	17S	31E	603314.9	3628545.5		8614	158		
RA 11590 POD3		RA	ED	SW	NW	NE	32	17S	31E	603931.8	3629260.3		8816	60		
RA 11590 POD4		RA	ED	SE	NW	NW	32	17S	31E	603307.6	3629253.8		9173	55		
CP 01907 POD1		CP	ED	SE	NE	NE	18	19S	31E	603017.2	3614737.1		9259			
RA 13465 POD1		RA	ED	SE	NW	SE	23	17S	31E	608938.4	3631733.8		9797	101		
CP 00767 POD1		CP	ED		SW	NE	35	18S	30E	599300.0	3619158.0 *		9936	500		

Average Depth to Water: **0 feet**

Minimum Depth: **0 feet**

Maximum Depth: **0 feet**

Record Count: 8

Basin/County Search:

County: ED

UTM Filters (in meters):

Easting: 608840.41

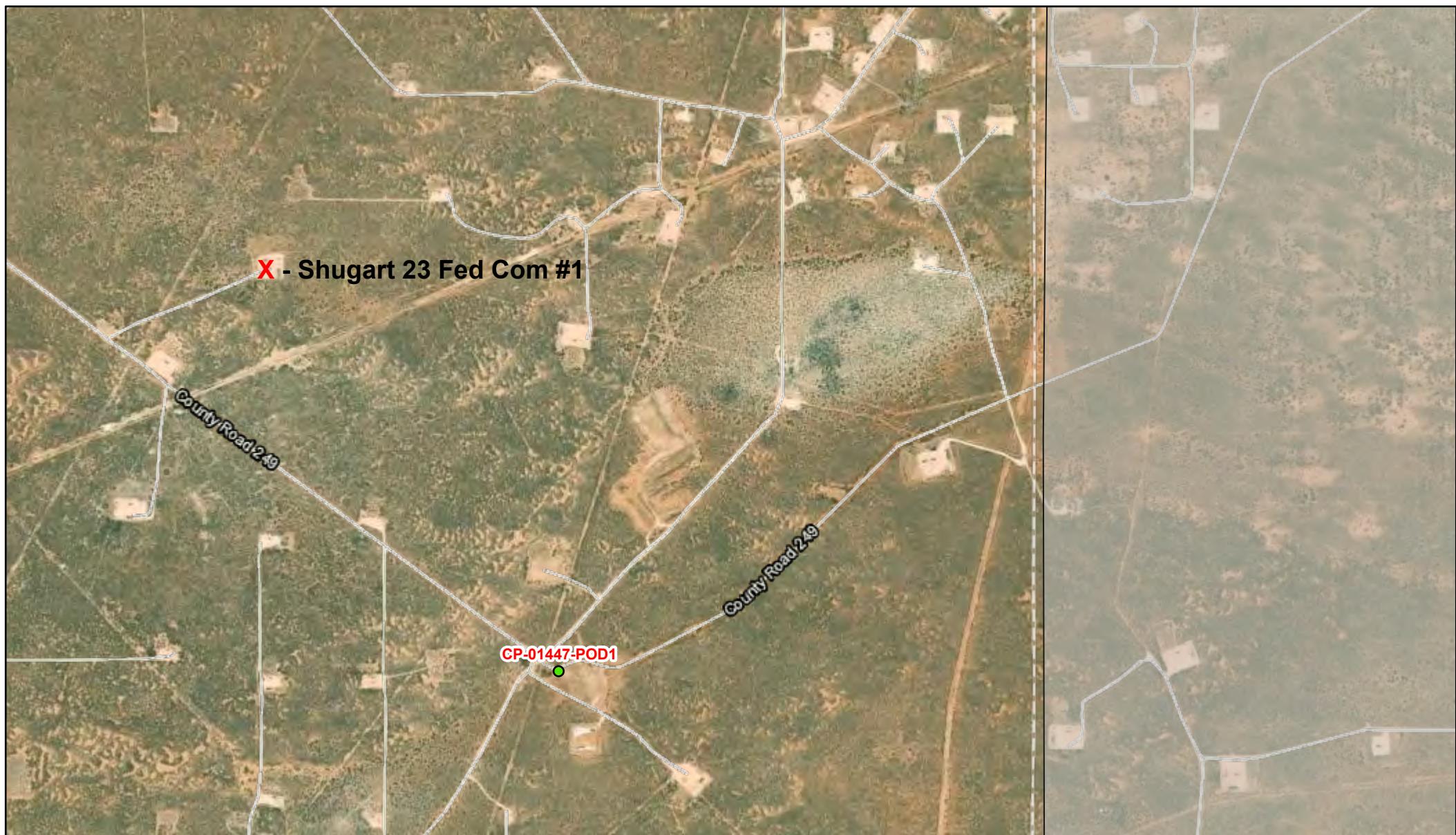
Northing: 3621936.91

Radius: 10000

* 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.

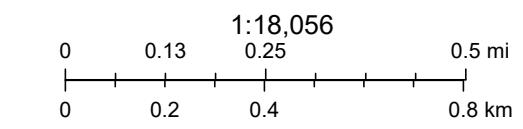
OSE POD Location Map



11/26/2024, 1:22:18 PM

GIS WATERS PODs

Water Right Regulations

● Pending Closure Area OSE District Boundary

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 324502103495801

Minimum number of levels = 1

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

USGS 324502103495801 18S.31E.14.22133

[Available data for this site](#)

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°45'02", Longitude 103°49'58" NAD27

Land-surface elevation 3,736 feet above NAVD88

The depth of the well is 400 feet below land surface.

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

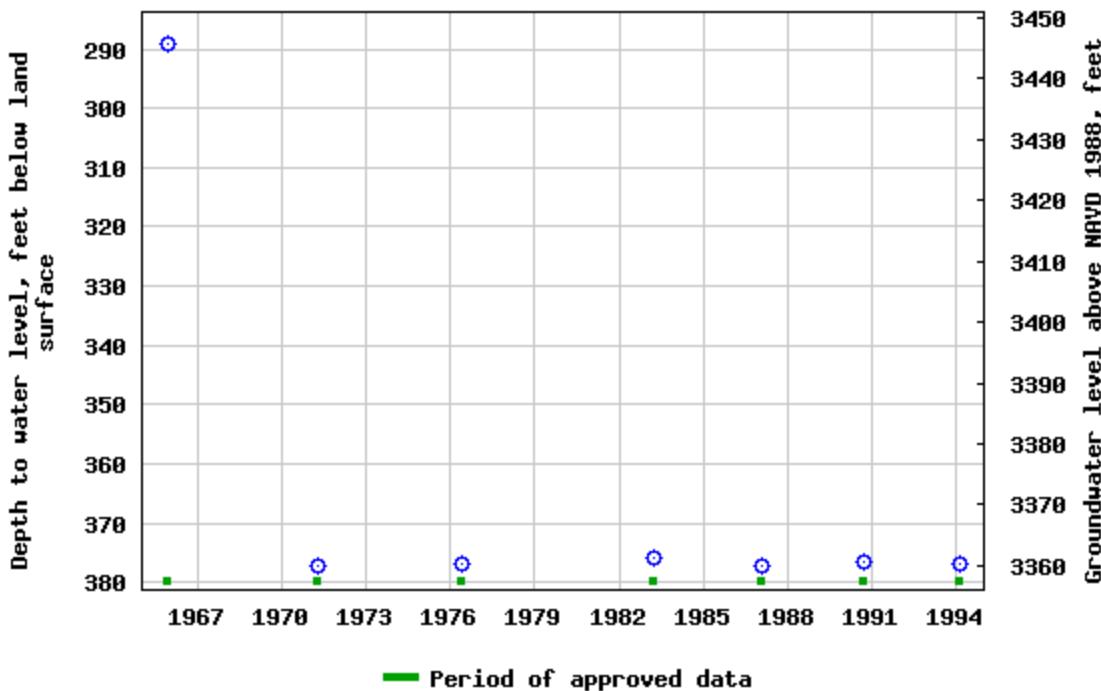
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

USGS 324502103495801 18S.31E.14.22133



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

[Questions or Comments](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

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

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

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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

Page Last Modified: 2024-11-26 14:25:53 EST

0.66 0.46 nadww02



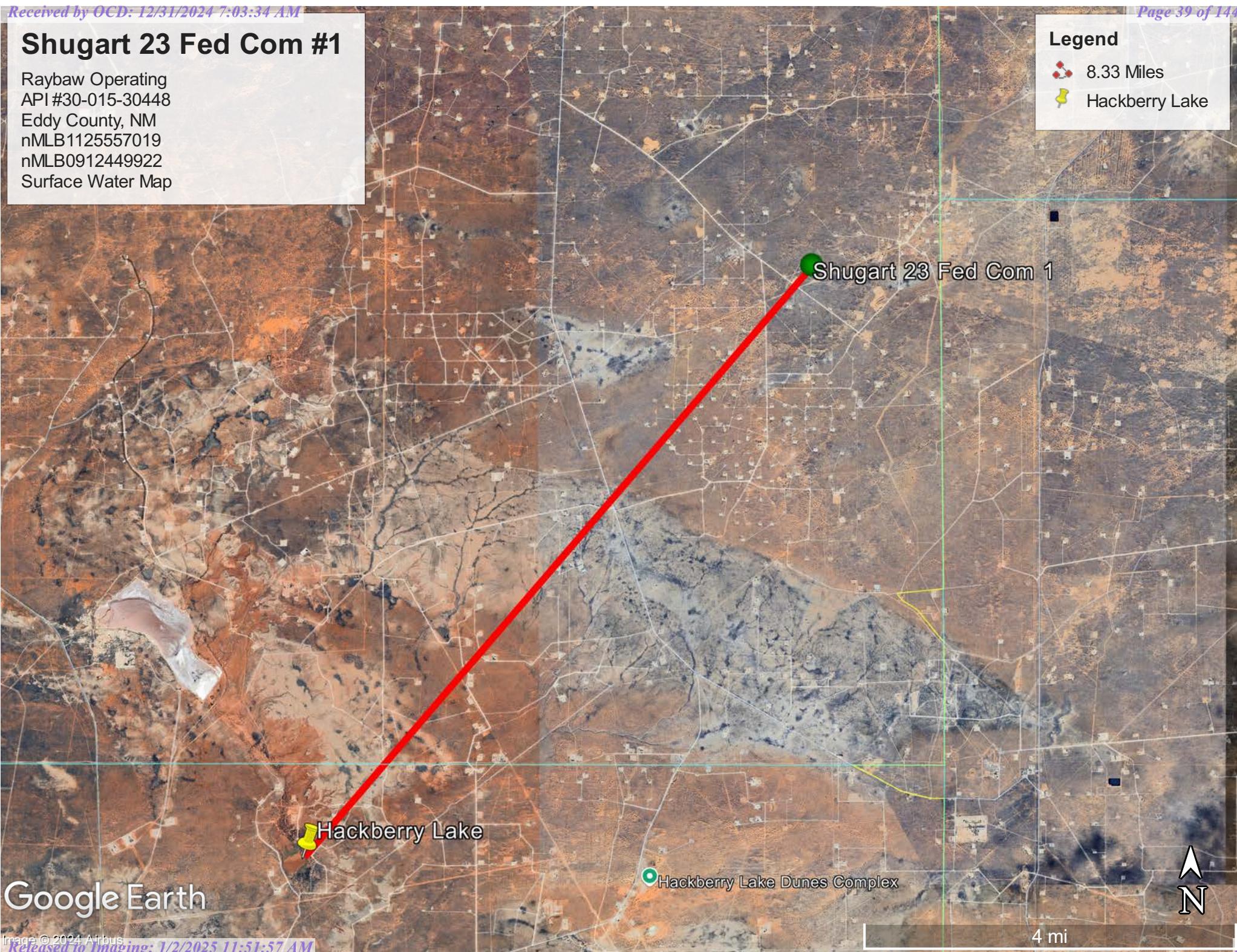
National Water Information System: Mapper



Shugart 23 Fed Com #1

Raybaw Operating
API #30-015-30448
Eddy County, NM
nMLB1125557019
nMLB0912449922
Surface Water Map

- Legend**
- 8.33 Miles
 - Hackberry Lake

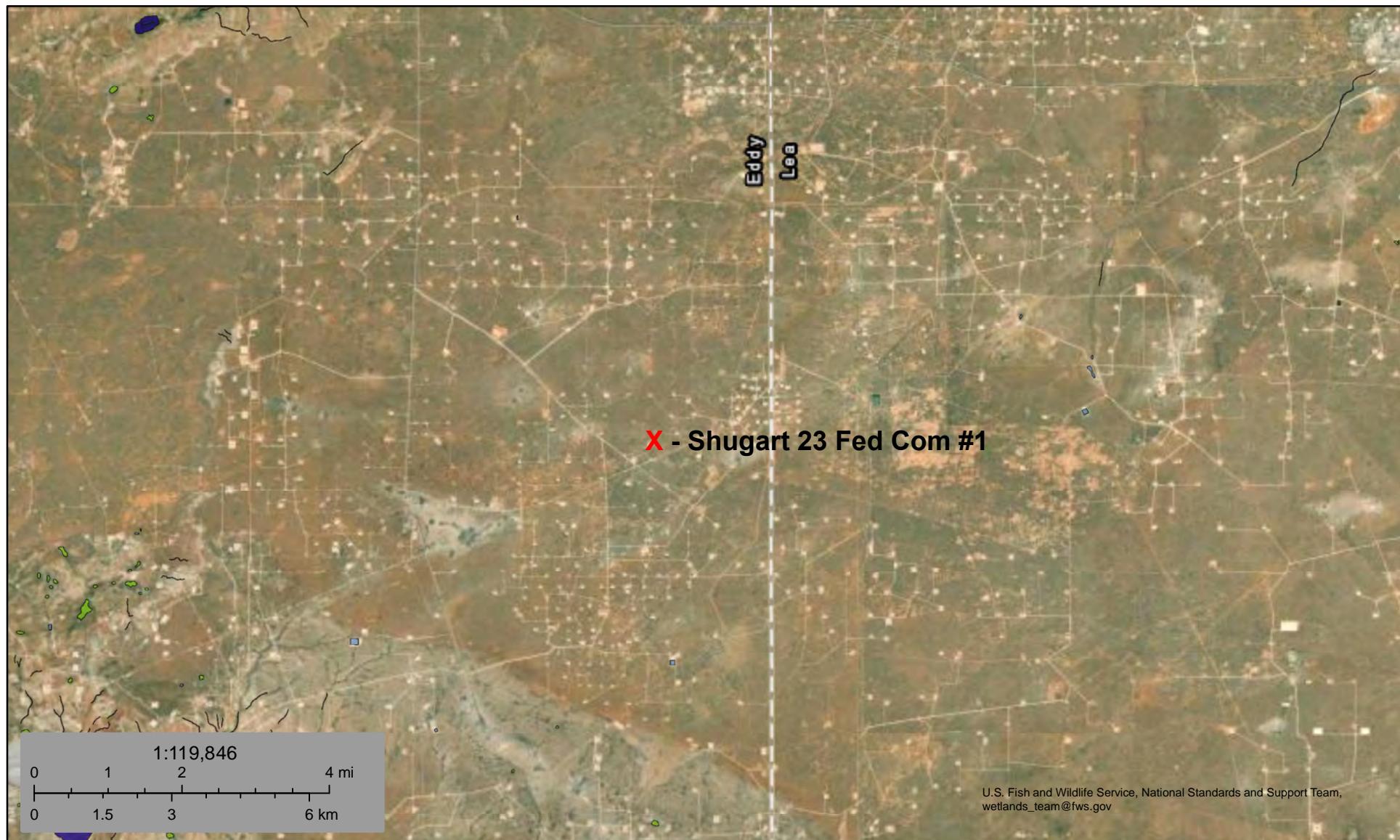


Google Earth



National Wetlands Inventory

Wetlands Map



November 26, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

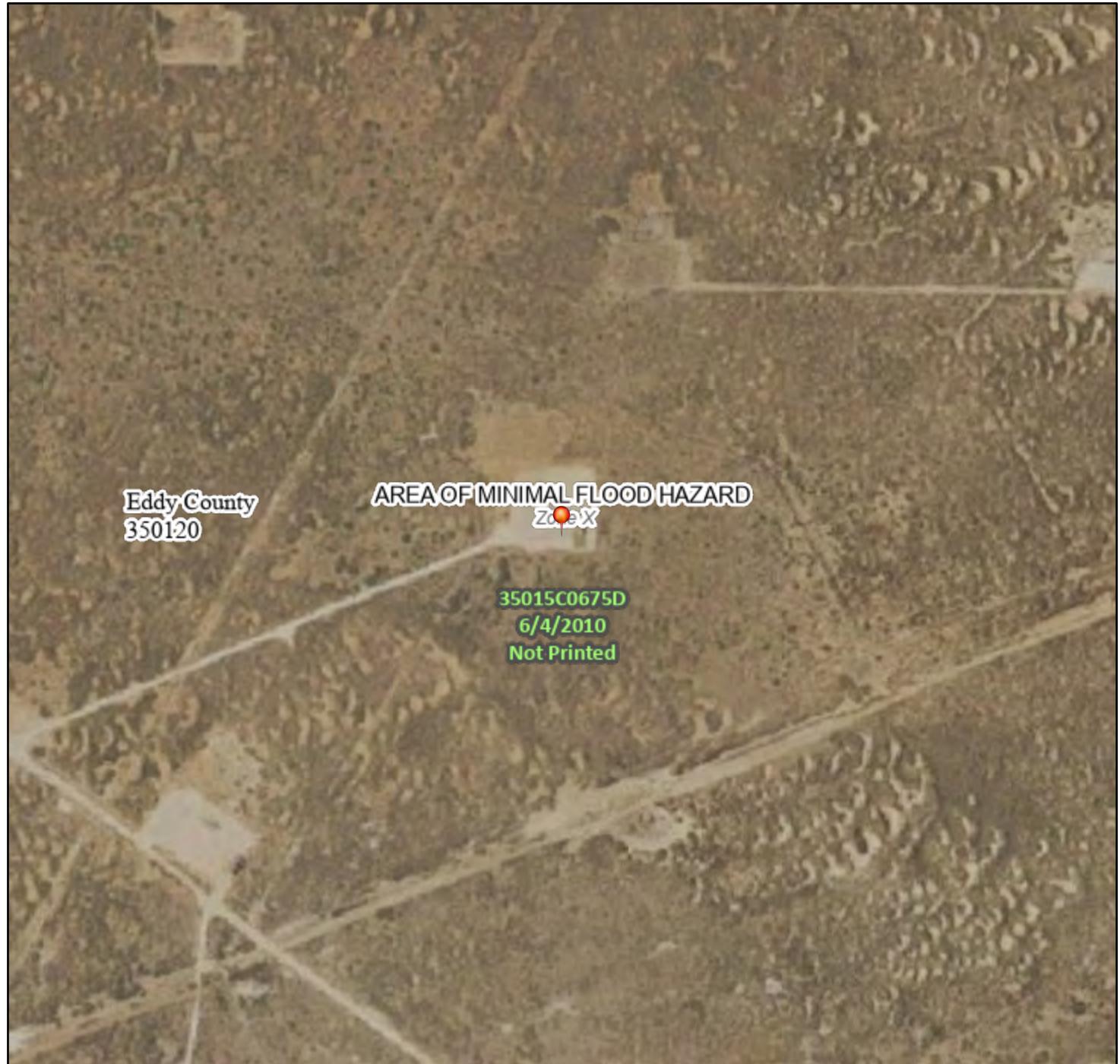
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette



103°50'35"W 32°44'3"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

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

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/26/2024 at 7:31 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix B

Soil Survey

Soil Map

Geologic Unit Map

Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Eddy Area, New Mexico

BP—Berino-Pajarito complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w45
Elevation: 2,450 to 4,200 feet
Mean annual precipitation: 5 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 46 percent
Pajarito and similar soils: 45 percent
Minor components: 9 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand
H2 - 17 to 50 inches: sandy loam
H3 - 50 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): 4e



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

11/26/2024
Page 1 of 3

Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

*Land capability classification (nonirrigated): 7e
 Hydrologic Soil Group: B
 Ecological site: R070BD003NM - Loamy Sand
 Hydric soil rating: No*

Description of Pajarito

Setting

*Landform: Plains, interdunes, dunes
 Landform position (three-dimensional): Side slope
 Down-slope shape: Convex, linear
 Across-slope shape: Linear, convex
 Parent material: Mixed alluvium and/or eolian sands*

Typical profile

*H1 - 0 to 9 inches: loamy fine sand
 H2 - 9 to 36 inches: fine sandy loam
 H3 - 36 to 72 inches: fine sandy loam*

Properties and qualities

*Slope: 0 to 3 percent
 Depth to restrictive feature: More than 80 inches
 Drainage class: Well drained
 Runoff class: Very low
 Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
 Depth to water table: More than 80 inches
 Frequency of flooding: None
 Frequency of ponding: None
 Calcium carbonate, maximum content: 15 percent
 Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
 Sodium adsorption ratio, maximum: 1.0
 Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)*

Interpretive groups

*Land capability classification (irrigated): 2e
 Land capability classification (nonirrigated): 7e
 Hydrologic Soil Group: A
 Ecological site: R070BD003NM - Loamy Sand
 Hydric soil rating: No*

Minor Components

Wink

*Percent of map unit: 3 percent
 Ecological site: R070BD003NM - Loamy Sand
 Hydric soil rating: No*

Dune land

*Percent of map unit: 3 percent
 Hydric soil rating: No*



Map Unit Description: Berino-Pajarito complex, 0 to 3 percent slopes, eroded---Eddy Area,
New Mexico

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 20, Sep 3, 2024



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

11/26/2024
Page 3 of 3

Soil Map—Eddy Area, New Mexico



Soil Map may not be valid at this scale.

Map Scale: 1:685 if printed on A landscape (11" x 8.5") sheet.



0 30 60 120 180
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)
Soils		Soil Map Unit Polygons
		Soil Map Unit Lines
		Soil Map Unit Points
Special Point Features		
		Blowout
		Borrow Pit
		Clay Spot
		Closed Depression
		Gravel Pit
		Gravelly Spot
		Landfill
		Lava Flow
		Marsh or swamp
		Mine or Quarry
		Miscellaneous Water
		Perennial Water
		Rock Outcrop
		Saline Spot
		Sandy Spot
		Severely Eroded Spot
		Sinkhole
		Slide or Slip
		Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: [Web Soil Survey URL](#)
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
 Survey Area Data: Version 20, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Soil Map—Eddy Area, New Mexico

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BP	Berino-Pajarito complex, 0 to 3 percent slopes, eroded	2.5	100.0%
Totals for Area of Interest		2.5	100.0%



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

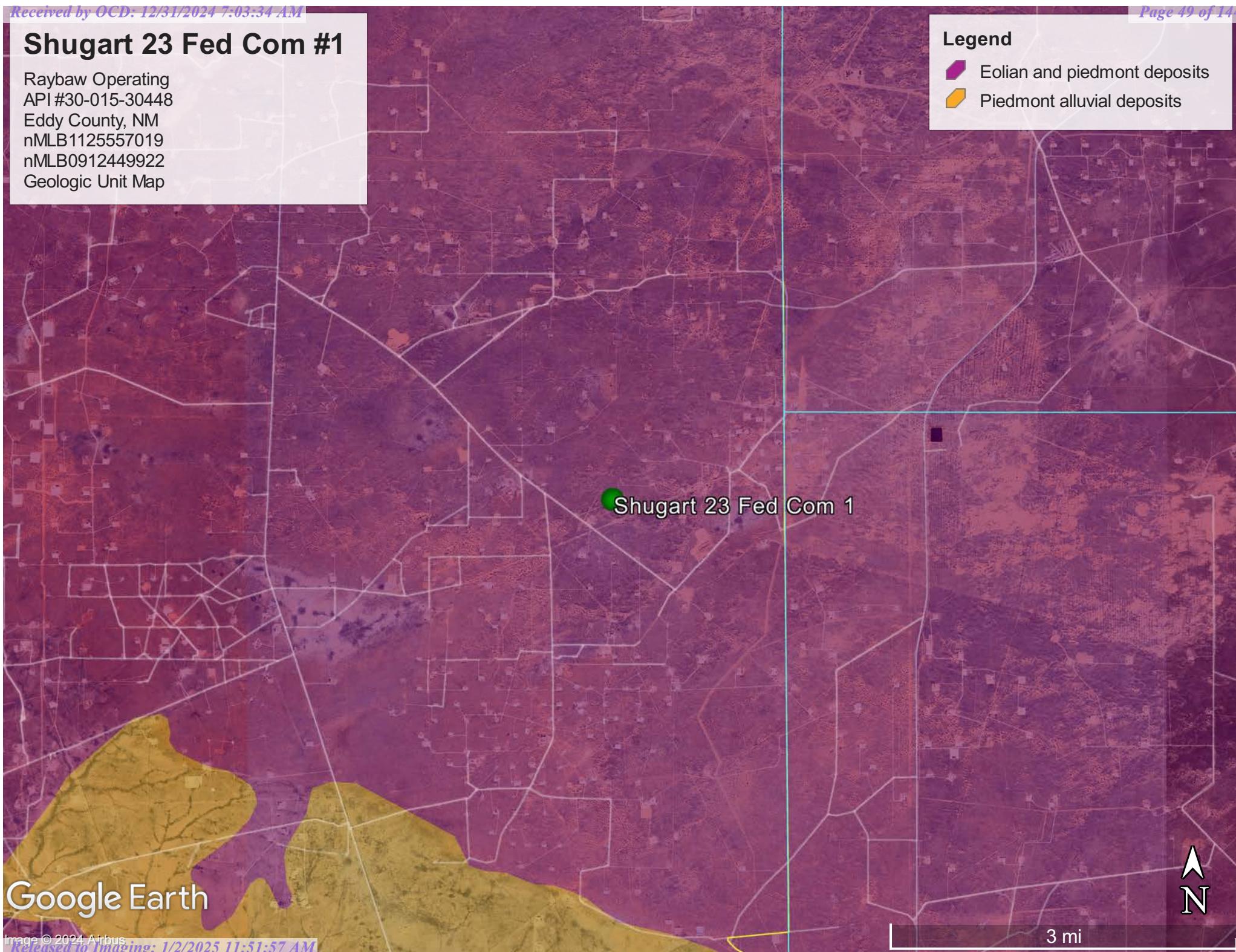
11/26/2024
Page 3 of 3

Shugart 23 Fed Com #1

Raybaw Operating
API #30-015-30448
Eddy County, NM
nMLB1125557019
nMLB0912449922
Geologic Unit Map

Legend

- Eolian and piedmont deposits
- Piedmont alluvial deposits



Google Earth

Appendix C

Initial C-141 Forms

NMOCD Correspondence

District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, 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 **APR 27 2009**
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

*NMLB0912449922**30-05-30448***Release Notification and Corrective Action****OPERATOR** Initial Report Final Report

Name of Company Devon Energy	6137	Contact <input type="checkbox"/> Roger Hernandez
Address P. O. Box 250 Artesia, NM 88211		Telephone No. <input type="checkbox"/> 575-748-5238
Facility Name Shugart 23 Fed Com #1	Facility Type <input type="checkbox"/> Oil Well	

Surface Owner	Mineral Owner	Lease No. <input type="checkbox"/>
---------------	---------------	------------------------------------

LOCATION OF RELEASE

Unit Letter	Section 23	Township 18S	Range 31E	Feet from the 1650	North/South Line South	Feet from the 1980	East/West Line East	County Eddy County,NM

NATURE OF RELEASE

Type of Release Oil	Volume of Release 40 bbls	Volume Recovered <input type="checkbox"/> 11 bbls
Source of Release Hole in bottom of oil tank.	Date and Hour of Occurrence April 23, 2009 (? Hour)	Date and Hour of Discovery April 23, 2009 12:15 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Sherry Bonham – Artesia OCD ; Doug Hogan – BLM (Carlsbad)	
By Whom? <input type="checkbox"/> David Sherrell	Date and Hour <input type="checkbox"/> April 23, 2009 3:10 PM (OCD) 3:21 PM BLM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken *

Discovered hole in bottom of tank caused by internal corrosion. Will air out area, rake, and fertilize.

Describe Area Affected and Cleanup Action Taken *

70'x20' air out area, rake, and fertilize Will repeat if necessary

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Roger Hernandez by A.J.</i>	OIL CONSERVATION DIVISION		
Printed Name: Roger Hernandez	Approved by: District Supervisor <i>Signed by Sherry Bonham</i>		
Title: Production Foreman	Approval Date: MAY 04 2009	Expiration Date	
Date: April 24, 2009 Phone: 575-748-5238	Conditions of Approval: <i>SEE ATTACHMENT</i>	Attached	<input checked="" type="checkbox"/>

* Attach Additional Sheets If Necessary

2RP-302

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, 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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

30-010-30448

Release Notification and Corrective Action

NMLB11255-57019

60137

OPERATOR

 Initial Report Final Report

Name of Company: Devon Energy Production Co LP	Contact: Merle Lewis
Address: PO BOX 250, Artesia, NM 88211	Telephone No.: 575-748-0184 or 575-748-6304
Facility Name: Shugart 23 Fed Com #1	Facility Type: Oil well

Surface Owner: State	Mineral Owner: BLM	Lease No.: LC - 065680
----------------------	--------------------	------------------------

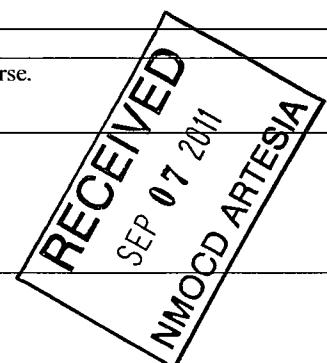
LOCATION OF RELEASE

Unit Letter J	Section 23	Township 18S	Range 31E	Feet from the 1650	North/South Line S	Feet from the 1980	East/West Line E	County Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 70 bbls	Volume Recovered: 31 bbls
Source of Release: Hole in oil tank	Date and Hour of Occurrence: 9/4/2011 (? Hour)	Date and Hour of Discovery: 9/4/2011, 12:25 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Paul Evans / BLM <i>OCD ~ 9/4/11 10:25 AM</i>	
By Whom? Merle Lewis, Asst. Foreman	Date and Hour: 9/4/11, 12:50 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		



Describe Cause of Problem and Remedial Action Taken.*

Hole in oil tank. Immediately, a vacuum truck was used to pick up the spill. 31 bbls were recovered out of 70 bbls.

Describe Area Affected and Cleanup Action Taken.*

60' x 20' in containment area. Our plan includes moving the oil tanks and rebuilding the battery at another part of the location and soil remediation will be completed in the spill area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Merle D. Lewis</i>	OIL CONSERVATION DIVISION	
Printed Name: Merle Lewis	Approved by District Supervisor: <i>Merle Lewis</i>	
Title: Assistant Production Foreman	Approval Date: SEP 12 2011	Expiration Date:
E-mail Address: Merle.Lewis@dvn.com	Conditions of Approval: Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:	
Date: 9/6/2011 Phone: 575-748-0184	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

10/12/2011

ZRP-896

From: Patterson, Heather, EMNRD
To: [Fulks, Brett](#)
Cc: [Bratcher, Mike, EMNRD](#)
Subject: Shugart 23 Fed Com 1/TNT 6 Fed 1
Date: Wednesday, July 15, 2015 7:10:00 AM

Mr. Fulks,

I have just reviewed and denied two older closure reports for Devon that I wanted to inform you about. These were releases that were bio remediated in 2012 by Enviroclean. It looks like the work was done properly, but they lack adequate delineation, and no follow up confirmation samples were reported to the OCD. In order to close these out, the OCD will require the sites be resampled. Depending on what those samples return, more work may be required. You can find the reports on OCD online imaging (<http://ocdimage.emnrd.state.nm.us/imaging/AEOrderCriteria.aspx>).

Here are the details:

TNT 6 Federal #1 * 30-015-31712 * Date of release: 2/2/2011 * 10bbl/oil, 13bbl/produced water *
OCD tracking number: 2RP-614

Shugart 23 Federal Com #1 * 30-015-30448 * Date of release: 9/4/2011 * 70bbl/oil * OCD tracking number: 2RP-896

If you have any questions or concerns please contact me,

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228



RE: [EXTERNAL] Re: The Oil Conservation Division (OCD) has rejected the application, Application ID: 414814

From Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>

Date Mon 12/30/2024 9:42 AM

To Tom bynum <tombynum@sapc-eco.com>

Cc Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nancy Winn <nwinn@sbcglobal.net>; Irma Rodriguez <irma@oaknrg.com>; Tom Campbell <tom@oaknrg.com>; Sid Campbell <sid@oaknrg.com>; Simon Abela <s.abela@sapc-eco.com>; Steve Robinson <Steve@oaknrg.com>

Good Morning Tom,

Yes, in the report, refer to no documentation found regarding approval of the ex situ remediation. As a result, sampling is being conducted to demonstrate the current status of impacted area. With the added language and the additional sampling, please submit the revised report via the OCD permitting portal.

Thanks,
Ashley

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> under “2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS”.

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Tom bynum <tombynum@sapc-eco.com>
Sent: Saturday, December 28, 2024 8:13 AM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nancy Winn <nwinn@sbcglobal.net>; Irma Rodriguez <irma@oaknrg.com>; Tom Campbell <tom@oaknrg.com>; Sid Campbell <sid@oaknrg.com>; Simon Abela <s.abela@sapc-eco.com>; Steve Robinson <Steve@oaknrg.com>
Subject: [EXTERNAL] Re: The Oil Conservation Division (OCD) has rejected the application, Application ID: 414814

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

Good morning Ashley,
Regarding the rejected sampling/remediation plan mentioned below:

We do not have documentation showing approval of any treatment for either incident (nMLB0912449922 & nMLB112555719). If phone conversations took place in 2012 and/or in 2020, follow up emails to those could not be found. We can adjust the report to include statements about the methods not being approved. Is that all you would need for this bullet point? The only documented correspondence we have found for either incident is included in Appendix C of the report.

I have adjusted the proposed sampling map to include samples from the ex-situ treatment cell area and have added language in the report reflecting this adjustment.

Are these the correct steps taken to gain approval of our sampling/work plan? Please advise.

Many thanks,

Tom Bynum

Sapec-Eco, LLC

(580) 748-1613



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

Sent: Friday, December 27, 2024 10:14 AM

To: Michael Lee <michael@raybawoperating.com>

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 414814

To whom it may concern (c/o Michael Lee for RAYBAW Operating, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nMLB1125557019, for the following reasons:

- **Remediation plan rejected**
- **Incident documents do not include approval of approval for MicroBlaze application and/or ex situ treatment cell. If documentation of approval exists, provide documentation in subsequent reports.**
- **Additional sampling required within and around the ex situ treatment cell. A minimum of the top 4 feet must be sampled to ensure that the constituents of concern were not flushed down into the soil.**
- **Submit a report via the OCD permitting portal by January 31, 2025.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 414814.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Ashley Maxwell

Projects Environmental Specialist - A

505-635-5000

Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

Appendix D

Photographic Documentation





Appendix E

Laboratory Reports



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

October 18, 2011

LARRY DUNN
ENVIROCLEAN
P. O. BOX 721090
OKLAHOMA CITY, OK 73172

RE: SHUGART 23 FED COM 1

Enclosed are the results of analyses for samples received by the laboratory on 10/11/11 17:26.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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, appearing to read "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENVIROCLEAN
 LARRY DUNN
 P. O. BOX 721090
 OKLAHOMA CITY OK, 73172
 Fax To: (405) 373-4549

Received:	10/11/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	SHUGART 23 FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 001 (H102195-01)

BTEX 8021B	mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.4	0.500	10/13/2011	ND	2.06	103	2.00	3.04	
Toluene*	207	0.500	10/13/2011	ND	2.08	104	2.00	1.14	
Ethylbenzene*	130	0.500	10/13/2011	ND	2.06	103	2.00	2.46	
Total Xylenes*	299	1.50	10/13/2011	ND	6.25	104	6.00	1.08	

Surrogate: 4-Bromofluorobenzene (PIL) 184 % 64.4-134

TPH 8015M	mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2880	100	10/13/2011	ND	159	79.5	200	13.5	
DRO >C10-C28	88800	200	10/14/2011	ND	162	81.1	200	11.6	
EXT DRO >C28-C35	2910	100	10/13/2011						

Surrogate: 1-Chlorooctane 113 % 55.5-154

Surrogate: 1-Chlorooctadecane 98.2 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENVIROCLEAN
 LARRY DUNN
 P. O. BOX 721090
 OKLAHOMA CITY OK, 73172
 Fax To: (405) 373-4549

Received:	10/11/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	SHUGART 23 FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 001A (H102195-02)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.746	0.050	10/13/2011	ND	2.06	103	2.00	3.04	
Toluene*	5.23	0.050	10/13/2011	ND	2.08	104	2.00	1.14	
Ethylbenzene*	2.26	0.050	10/13/2011	ND	2.06	103	2.00	2.46	
Total Xylenes*	4.60	0.150	10/13/2011	ND	6.25	104	6.00	1.08	

Surrogate: 4-Bromofluorobenzene (PIL) 158 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/13/2011	ND	159	79.5	200	13.5	
DRO >C10-C28	4210	100	10/13/2011	ND	162	81.1	200	11.6	
EXT DRO >C28-C35	<100	100	10/13/2011						

Surrogate: 1-Chlorooctane 138 % 55.5-154

Surrogate: 1-Chlorooctadecane 144 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENVIROCLEAN
 LARRY DUNN
 P. O. BOX 721090
 OKLAHOMA CITY OK, 73172
 Fax To: (405) 373-4549

Received:	10/11/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	SHUGART 23 FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 001B (H102195-03)

BTEX 8021B		mg/kg		Analyzed By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.208	0.050	10/14/2011	ND	2.08	104	2.00	0.829	
Toluene*	5.20	0.050	10/14/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	3.65	0.050	10/14/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	9.36	0.150	10/14/2011	ND	6.20	103	6.00	1.33	

Surrogate: 4-Bromofluorobenzene (PIL) 157 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	10/13/2011	ND	159	79.5	200	13.5	
DRO >C10-C28	4100	100	10/13/2011	ND	162	81.1	200	11.6	
EXT DRO >C28-C35	<100	100	10/13/2011						

Surrogate: 1-Chlorooctane 138 % 55.5-154

Surrogate: 1-Chlorooctadecane 145 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENVIROCLEAN
 LARRY DUNN
 P. O. BOX 721090
 OKLAHOMA CITY OK, 73172
 Fax To: (405) 373-4549

Received:	10/11/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	SHUGART 23 FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 002 (H102195-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.110	0.050	10/14/2011	ND	2.08	104	2.00	0.829		
Toluene*	1.58	0.050	10/14/2011	ND	2.07	103	2.00	0.173		
Ethylbenzene*	0.949	0.050	10/14/2011	ND	2.05	102	2.00	0.0754		
Total Xylenes*	6.05	0.150	10/14/2011	ND	6.20	103	6.00	1.33		

Surrogate: 4-Bromofluorobenzene (PIL) 129 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	10/13/2011	ND	159	79.5	200	13.5		
DRO >C10-C28	18900	100	10/13/2011	ND	162	81.1	200	11.6		
EXT DRO >C28-C35	350	100	10/13/2011							

Surrogate: 1-Chlorooctane 129 % 55.5-154

Surrogate: 1-Chlorooctadecane 122 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENVIROCLEAN
 LARRY DUNN
 P. O. BOX 721090
 OKLAHOMA CITY OK, 73172
 Fax To: (405) 373-4549

Received:	10/11/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	SHUGART 23 FED COM 1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 002A (H102195-05)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	8.85	0.250	10/14/2011	ND	2.08	104	2.00	0.829		
Toluene*	51.7	0.250	10/14/2011	ND	2.07	103	2.00	0.173		
Ethylbenzene*	19.5	0.250	10/14/2011	ND	2.05	102	2.00	0.0754		
Total Xylenes*	194	0.750	10/14/2011	ND	6.20	103	6.00	1.33		

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	12800	100	10/13/2011	ND	159	79.5	200	13.5		
DRO >C10-C28	54800	100	10/13/2011	ND	162	81.1	200	11.6		
EXT DRO >C28-C35	1330	100	10/13/2011							

Surrogate: 1-Chlorooctane 132 % 55.5-154

Surrogate: 1-Chlorooctadecane 95.1 % 57.6-158

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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-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink that appears to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ENVIRONCSIAN Project Manager: LARRY DUNN Address: P.O. Box 721090 City: OKLAHOMA CITY State: OK Zip: 73142 Phone #: 405 373 4343 Fax #: 405 373 4549 Project #: Project Owner: Project Name: SUGART 23 FED CONS 1 Project Location: " " " Sampler Name:				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST																		
FOR LAB USE ONLY Lab I.D. 1102195- 01 001 02 001A 03 001B 04 002 05 002A	Sample I.D. 01 001 02 001A 03 001B 04 002 05 002A	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX			PRESERV		SAMPLING																
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COLD	OTHER:	DATE	TIME											
			1	1	1	1	1	1	1	1	1	10/1/11	8:20P											
			1	1	1	1	1	1	1	1	1	1	1	1										
			1	1	1	1	1	1	1	1	1	1	1	1										
			1	1	1	1	1	1	1	1	1	1	1	1										

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.

Relinquished By: 	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:
Relinquished By: 	Received By: 	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials)

* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

Samples just taken & brought to lab



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

July 17, 2020

Chris Jones

Pima Environmental Services LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
TEL: (575) 631-6977
FAX

RE: Shuart 23 Fed Com#1

OrderNo.: 2007413

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 38 sample(s) on 7/9/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S1-0-6"**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 10:00:00 AM**Lab ID:** 2007413-001**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/11/2020 6:50:06 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 6:50:06 PM
Surr: DNOP	65.4	55.1-146		%Rec	1	7/11/2020 6:50:06 PM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 12:10:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 9:41:49 AM
Toluene	ND	0.048		mg/Kg	1	7/12/2020 9:41:49 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2020 9:41:49 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2020 9:41:49 AM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	7/12/2020 9:41:49 AM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	7/12/2020 9:41:49 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	7/12/2020 9:41:49 AM
Surr: Toluene-d8	101	70-130		%Rec	1	7/12/2020 9:41:49 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2020 9:41:49 AM
Surr: BFB	93.4	70-130		%Rec	1	7/12/2020 9:41:49 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S1-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 10:05:00 AM**Lab ID:** 2007413-002**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/11/2020 7:15:17 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 7:15:17 PM
Surr: DNOP	102	55.1-146		%Rec	1	7/11/2020 7:15:17 PM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 12:23:15 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 10:18:02 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 10:18:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 10:18:02 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2020 10:18:02 AM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	7/12/2020 10:18:02 AM
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	7/12/2020 10:18:02 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	7/12/2020 10:18:02 AM
Surr: Toluene-d8	103	70-130		%Rec	1	7/12/2020 10:18:02 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 10:18:02 AM
Surr: BFB	93.0	70-130		%Rec	1	7/12/2020 10:18:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S1-2'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:10:00 AM**Lab ID:** 2007413-003**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/11/2020 12:19:05 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 12:19:05 PM
Surr: DNOP	80.7	55.1-146		%Rec	1	7/11/2020 12:19:05 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/11/2020 10:20:01 PM
Surr: BFB	79.1	66.6-105		%Rec	1	7/11/2020 10:20:01 PM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/11/2020 10:20:01 PM
Toluene	ND	0.049		mg/Kg	1	7/11/2020 10:20:01 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/11/2020 10:20:01 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/11/2020 10:20:01 PM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/11/2020 10:20:01 PM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 12:35:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S2-0-6"**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:15:00 AM**Lab ID:** 2007413-004**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/11/2020 1:32:15 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/11/2020 1:32:15 PM
Surr: DNOP	97.7	55.1-146		%Rec	1	7/11/2020 1:32:15 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/11/2020 11:55:24 PM
Surr: BFB	85.9	66.6-105		%Rec	1	7/11/2020 11:55:24 PM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/11/2020 11:55:24 PM
Toluene	ND	0.050		mg/Kg	1	7/11/2020 11:55:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/11/2020 11:55:24 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/11/2020 11:55:24 PM
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	7/11/2020 11:55:24 PM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 12:48:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S2-1"**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:20:00 AM**Lab ID:** 2007413-005**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/11/2020 1:56:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2020 1:56:43 PM
Surr: DNOP	107	55.1-146		%Rec	1	7/11/2020 1:56:43 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 1:07:54 AM
Surr: BFB	80.2	66.6-105		%Rec	1	7/12/2020 1:07:54 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 1:07:54 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 1:07:54 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 1:07:54 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2020 1:07:54 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/12/2020 1:07:54 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 1:25:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S2-2'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 10:25:00 AM**Lab ID:** 2007413-006**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/11/2020 2:21:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2020 2:21:02 PM
Surr: DNOP	77.5	55.1-146		%Rec	1	7/11/2020 2:21:02 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 1:31:30 AM
Surr: BFB	78.6	66.6-105		%Rec	1	7/12/2020 1:31:30 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 1:31:30 AM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 1:31:30 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 1:31:30 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2020 1:31:30 AM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/12/2020 1:31:30 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 1:37:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S3-0-6"**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:30:00 AM**Lab ID:** 2007413-007**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/11/2020 2:45:31 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 2:45:31 PM
Surr: DNOP	24.0	55.1-146	S	%Rec	1	7/11/2020 2:45:31 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 1:55:01 AM
Surr: BFB	78.6	66.6-105		%Rec	1	7/12/2020 1:55:01 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 1:55:01 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 1:55:01 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 1:55:01 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 1:55:01 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/12/2020 1:55:01 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 1:50:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S3-1'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:35:00 AM**Lab ID:** 2007413-008**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/11/2020 3:09:47 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2020 3:09:47 PM
Surr: DNOP	79.9	55.1-146		%Rec	1	7/11/2020 3:09:47 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 2:18:31 AM
Surr: BFB	79.2	66.6-105		%Rec	1	7/12/2020 2:18:31 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 2:18:31 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 2:18:31 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 2:18:31 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 2:18:31 AM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/12/2020 2:18:31 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 2:02:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S3-2'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:40:00 AM**Lab ID:** 2007413-009**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/11/2020 3:34:14 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 3:34:14 PM
Surr: DNOP	86.4	55.1-146		%Rec	1	7/11/2020 3:34:14 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 2:42:03 AM
Surr: BFB	77.6	66.6-105		%Rec	1	7/12/2020 2:42:03 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 2:42:03 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 2:42:03 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 2:42:03 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 2:42:03 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/12/2020 2:42:03 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 5:21:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S4-0-6"**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:45:00 AM**Lab ID:** 2007413-010**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	7/11/2020 3:58:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2020 3:58:43 PM
Surr: DNOP	37.8	55.1-146	S	%Rec	1	7/11/2020 3:58:43 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 3:52:47 AM
Surr: BFB	76.7	66.6-105		%Rec	1	7/12/2020 3:52:47 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 3:52:47 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 3:52:47 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 3:52:47 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2020 3:52:47 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/12/2020 3:52:47 AM
EPA METHOD 300.0: ANIONS						
Chloride	1800	61		mg/Kg	20	7/13/2020 6:23:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S4-1'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:50:00 AM**Lab ID:** 2007413-011**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	420	98		mg/Kg	10	7/11/2020 4:23:15 PM
Motor Oil Range Organics (MRO)	540	490		mg/Kg	10	7/11/2020 4:23:15 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	7/11/2020 4:23:15 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/12/2020 4:16:14 AM
Surr: BFB	78.3	66.6-105		%Rec	1	7/12/2020 4:16:14 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 4:16:14 AM
Toluene	ND	0.048		mg/Kg	1	7/12/2020 4:16:14 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/12/2020 4:16:14 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/12/2020 4:16:14 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/12/2020 4:16:14 AM
EPA METHOD 300.0: ANIONS						
Chloride	1500	60		mg/Kg	20	7/13/2020 7:00:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S4-2'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 10:55:00 AM**Lab ID:** 2007413-012**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	1800	200		mg/Kg	20	7/11/2020 4:47:39 PM
Motor Oil Range Organics (MRO)	2100	1000		mg/Kg	20	7/11/2020 4:47:39 PM
Surr: DNOP	0	55.1-146	S	%Rec	20	7/11/2020 4:47:39 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	9.9		mg/Kg	2	7/12/2020 4:39:50 AM
Surr: BFB	75.9	66.6-105		%Rec	2	7/12/2020 4:39:50 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.050		mg/Kg	2	7/12/2020 4:39:50 AM
Toluene	ND	0.099		mg/Kg	2	7/12/2020 4:39:50 AM
Ethylbenzene	ND	0.099		mg/Kg	2	7/12/2020 4:39:50 AM
Xylenes, Total	ND	0.20		mg/Kg	2	7/12/2020 4:39:50 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	2	7/12/2020 4:39:50 AM
EPA METHOD 300.0: ANIONS						
Chloride	950	60		mg/Kg	20	7/13/2020 7:12:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S5-0-6"**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 11:00:00 AM**Lab ID:** 2007413-013**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	1000	190		mg/Kg	20	7/11/2020 5:12:07 PM
Motor Oil Range Organics (MRO)	1500	970		mg/Kg	20	7/11/2020 5:12:07 PM
Surr: DNOP	0	55.1-146	S	%Rec	20	7/11/2020 5:12:07 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 5:03:27 AM
Surr: BFB	76.2	66.6-105		%Rec	1	7/12/2020 5:03:27 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 5:03:27 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 5:03:27 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 5:03:27 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 5:03:27 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/12/2020 5:03:27 AM
EPA METHOD 300.0: ANIONS						
Chloride	950	60		mg/Kg	20	7/13/2020 7:25:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S5-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 11:05:00 AM**Lab ID:** 2007413-014**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	1100	190		mg/Kg	20	7/13/2020 9:27:13 AM
Motor Oil Range Organics (MRO)	1600	930		mg/Kg	20	7/13/2020 9:27:13 AM
Surr: DNOP	0	55.1-146	S	%Rec	20	7/13/2020 9:27:13 AM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 5:27:35 AM
Surr: BFB	76.6	66.6-105		%Rec	1	7/12/2020 5:27:35 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 5:27:35 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 5:27:35 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 5:27:35 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 5:27:35 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/12/2020 5:27:35 AM
EPA METHOD 300.0: ANIONS						
Chloride	1300	60		mg/Kg	20	7/13/2020 7:37:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S5-2'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 11:10:00 AM**Lab ID:** 2007413-015**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	480	94		mg/Kg	10	7/13/2020 9:51:21 AM
Motor Oil Range Organics (MRO)	810	470		mg/Kg	10	7/13/2020 9:51:21 AM
Surr: DNOP	0	55.1-146	S	%Rec	10	7/13/2020 9:51:21 AM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 5:51:22 AM
Surr: BFB	76.4	66.6-105		%Rec	1	7/12/2020 5:51:22 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 5:51:22 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 5:51:22 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 5:51:22 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 5:51:22 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/12/2020 5:51:22 AM
EPA METHOD 300.0: ANIONS						
Chloride	690	59		mg/Kg	20	7/13/2020 7:49:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S6-0-6"**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 11:15:00 AM**Lab ID:** 2007413-016**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	550	93		mg/Kg	10	7/11/2020 6:50:01 PM
Motor Oil Range Organics (MRO)	590	470		mg/Kg	10	7/11/2020 6:50:01 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	7/11/2020 6:50:01 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 6:14:51 AM
Surr: BFB	76.8	66.6-105		%Rec	1	7/12/2020 6:14:51 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 6:14:51 AM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 6:14:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 6:14:51 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 6:14:51 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/12/2020 6:14:51 AM
EPA METHOD 300.0: ANIONS						
Chloride	200	60		mg/Kg	20	7/13/2020 8:02:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S6-1'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 11:20:00 AM**Lab ID:** 2007413-017**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	910	180		mg/Kg	20	7/13/2020 10:15:31 AM
Motor Oil Range Organics (MRO)	1700	900		mg/Kg	20	7/13/2020 10:15:31 AM
Surr: DNOP	0	55.1-146	S	%Rec	20	7/13/2020 10:15:31 AM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 7:02:07 AM
Surr: BFB	84.4	66.6-105		%Rec	1	7/12/2020 7:02:07 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 7:02:07 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 7:02:07 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 7:02:07 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 7:02:07 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	7/12/2020 7:02:07 AM
EPA METHOD 300.0: ANIONS						
Chloride	110	60		mg/Kg	20	7/13/2020 8:14:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S6-2'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 11:25:00 AM**Lab ID:** 2007413-018**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	880	93		mg/Kg	10	7/13/2020 10:39:50 AM
Motor Oil Range Organics (MRO)	1400	460		mg/Kg	10	7/13/2020 10:39:50 AM
Surr: DNOP	0	55.1-146	S	%Rec	10	7/13/2020 10:39:50 AM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 7:25:39 AM
Surr: BFB	73.9	66.6-105		%Rec	1	7/12/2020 7:25:39 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 7:25:39 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 7:25:39 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 7:25:39 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 7:25:39 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/12/2020 7:25:39 AM
EPA METHOD 300.0: ANIONS						
Chloride	110	60		mg/Kg	20	7/13/2020 8:51:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S7-0-6"**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 11:30:00 AM**Lab ID:** 2007413-019**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/11/2020 8:03:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2020 8:03:20 PM
Surr: DNOP	28.6	55.1-146	S	%Rec	1	7/11/2020 8:03:20 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 7:49:06 AM
Surr: BFB	75.4	66.6-105		%Rec	1	7/12/2020 7:49:06 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 7:49:06 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 7:49:06 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 7:49:06 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 7:49:06 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	7/12/2020 7:49:06 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	59		mg/Kg	20	7/13/2020 9:04:23 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S7-1'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 11:35:00 AM**Lab ID:** 2007413-020**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/11/2020 8:27:51 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2020 8:27:51 PM
Surr: DNOP	52.2	55.1-146	S	%Rec	1	7/11/2020 8:27:51 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 8:12:31 AM
Surr: BFB	75.5	66.6-105		%Rec	1	7/12/2020 8:12:31 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 8:12:31 AM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 8:12:31 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 8:12:31 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 8:12:31 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	7/12/2020 8:12:31 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 9:16:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S7-2'**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 11:40:00 AM**Lab ID:** 2007413-021**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/11/2020 8:52:08 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/11/2020 8:52:08 PM
Surr: DNOP	58.0	55.1-146		%Rec	1	7/11/2020 8:52:08 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 8:36:00 AM
Surr: BFB	74.9	66.6-105		%Rec	1	7/12/2020 8:36:00 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 8:36:00 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 8:36:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 8:36:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2020 8:36:00 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/12/2020 8:36:00 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 9:29:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S8-0-6"**Project:** Shuqart 23 Fed Com#1**Collection Date:** 7/8/2020 11:45:00 AM**Lab ID:** 2007413-022**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	19		9.7	mg/Kg	1	7/11/2020 9:16:40 PM
Motor Oil Range Organics (MRO)	ND		48	mg/Kg	1	7/11/2020 9:16:40 PM
Surr: DNOP	65.2		55.1-146	%Rec	1	7/11/2020 9:16:40 PM
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND		5.0	mg/Kg	1	7/12/2020 8:59:47 AM
Surr: BFB	74.1		66.6-105	%Rec	1	7/12/2020 8:59:47 AM
EPA METHOD 8021B: VOLATILES						
Benzene	ND		0.025	mg/Kg	1	7/12/2020 8:59:47 AM
Toluene	ND		0.050	mg/Kg	1	7/12/2020 8:59:47 AM
Ethylbenzene	ND		0.050	mg/Kg	1	7/12/2020 8:59:47 AM
Xylenes, Total	ND		0.10	mg/Kg	1	7/12/2020 8:59:47 AM
Surr: 4-Bromofluorobenzene	103		80-120	%Rec	1	7/12/2020 8:59:47 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND		59	mg/Kg	20	7/13/2020 9:41:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S8-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 11:50:00 AM**Lab ID:** 2007413-023**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	88	9.6		mg/Kg	1	7/11/2020 10:29:39 PM
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	7/11/2020 10:29:39 PM
Surr: DNOP	104	55.1-146		%Rec	1	7/11/2020 10:29:39 PM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 9:54:01 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 7:01:02 AM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 7:01:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 7:01:02 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 7:01:02 AM
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%Rec	1	7/12/2020 7:01:02 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	7/12/2020 7:01:02 AM
Surr: Dibromofluoromethane	98.3	70-130		%Rec	1	7/12/2020 7:01:02 AM
Surr: Toluene-d8	99.2	70-130		%Rec	1	7/12/2020 7:01:02 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 7:01:02 AM
Surr: BFB	105	70-130		%Rec	1	7/12/2020 7:01:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S8-2'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 11:55:00 AM**Lab ID:** 2007413-024**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	380	100		mg/Kg	10	7/13/2020 11:28:44 AM
Motor Oil Range Organics (MRO)	760	500		mg/Kg	10	7/13/2020 11:28:44 AM
Surr: DNOP	0	55.1-146	S	%Rec	10	7/13/2020 11:28:44 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 10:06:25 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 1:03:20 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 1:03:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 1:03:20 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/12/2020 1:03:20 PM
Surr: 1,2-Dichloroethane-d4	93.8	70-130		%Rec	1	7/12/2020 1:03:20 PM
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	7/12/2020 1:03:20 PM
Surr: Dibromofluoromethane	95.4	70-130		%Rec	1	7/12/2020 1:03:20 PM
Surr: Toluene-d8	98.1	70-130		%Rec	1	7/12/2020 1:03:20 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 1:03:20 PM
Surr: BFB	103	70-130		%Rec	1	7/12/2020 1:03:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S9-0-6"**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:00:00 PM**Lab ID:** 2007413-025**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	1700	190		mg/Kg	20	7/12/2020 12:31:21 AM
Motor Oil Range Organics (MRO)	2100	970		mg/Kg	20	7/12/2020 12:31:21 AM
Surr: DNOP	0	55.1-146	S	%Rec	20	7/12/2020 12:31:21 AM
EPA METHOD 300.0: ANIONS						
Chloride	1000	60		mg/Kg	20	7/13/2020 10:18:49 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 2:33:58 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 2:33:58 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 2:33:58 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 2:33:58 PM
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	7/12/2020 2:33:58 PM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	7/12/2020 2:33:58 PM
Surr: Dibromofluoromethane	92.5	70-130		%Rec	1	7/12/2020 2:33:58 PM
Surr: Toluene-d8	101	70-130		%Rec	1	7/12/2020 2:33:58 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 2:33:58 PM
Surr: BFB	105	70-130		%Rec	1	7/12/2020 2:33:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S9-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:05:00 PM**Lab ID:** 2007413-026**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	2300	200		mg/Kg	20	7/12/2020 12:55:41 AM
Motor Oil Range Organics (MRO)	2600	1000		mg/Kg	20	7/12/2020 12:55:41 AM
Surr: DNOP	0	55.1-146	S	%Rec	20	7/12/2020 12:55:41 AM
EPA METHOD 300.0: ANIONS						
Chloride	870	60		mg/Kg	20	7/13/2020 10:31:14 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 3:04:19 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 3:04:19 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 3:04:19 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2020 3:04:19 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%Rec	1	7/12/2020 3:04:19 PM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	7/12/2020 3:04:19 PM
Surr: Dibromofluoromethane	97.5	70-130		%Rec	1	7/12/2020 3:04:19 PM
Surr: Toluene-d8	102	70-130		%Rec	1	7/12/2020 3:04:19 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 3:04:19 PM
Surr: BFB	108	70-130		%Rec	1	7/12/2020 3:04:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S10-0-6"**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:10:00 PM**Lab ID:** 2007413-027**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/12/2020 1:20:05 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/12/2020 1:20:05 AM
Surr: DNOP	108	55.1-146		%Rec	1	7/12/2020 1:20:05 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/13/2020 10:43:39 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 3:34:41 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 3:34:41 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 3:34:41 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2020 3:34:41 PM
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	7/12/2020 3:34:41 PM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	7/12/2020 3:34:41 PM
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	7/12/2020 3:34:41 PM
Surr: Toluene-d8	104	70-130		%Rec	1	7/12/2020 3:34:41 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 3:34:41 PM
Surr: BFB	106	70-130		%Rec	1	7/12/2020 3:34:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S10-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:15:00 PM**Lab ID:** 2007413-028**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	390	97		mg/Kg	10	7/13/2020 11:53:15 AM
Motor Oil Range Organics (MRO)	830	490		mg/Kg	10	7/13/2020 11:53:15 AM
Surr: DNOP	0	55.1-146	S	%Rec	10	7/13/2020 11:53:15 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	59		mg/Kg	20	7/13/2020 11:20:52 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 4:05:17 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 4:05:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 4:05:17 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 4:05:17 PM
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	7/12/2020 4:05:17 PM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	7/12/2020 4:05:17 PM
Surr: Dibromofluoromethane	100	70-130		%Rec	1	7/12/2020 4:05:17 PM
Surr: Toluene-d8	98.2	70-130		%Rec	1	7/12/2020 4:05:17 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 4:05:17 PM
Surr: BFB	103	70-130		%Rec	1	7/12/2020 4:05:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S10-2'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:20:00 PM**Lab ID:** 2007413-029**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	150	47		mg/Kg	5	7/13/2020 11:04:15 AM
Motor Oil Range Organics (MRO)	350	240		mg/Kg	5	7/13/2020 11:04:15 AM
Surr: DNOP	139	55.1-146		%Rec	5	7/13/2020 11:04:15 AM
EPA METHOD 300.0: ANIONS						
Chloride	76	60		mg/Kg	20	7/14/2020 4:18:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 4:35:46 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 4:35:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 4:35:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2020 4:35:46 PM
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	7/12/2020 4:35:46 PM
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	7/12/2020 4:35:46 PM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	7/12/2020 4:35:46 PM
Surr: Toluene-d8	97.8	70-130		%Rec	1	7/12/2020 4:35:46 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 4:35:46 PM
Surr: BFB	107	70-130		%Rec	1	7/12/2020 4:35:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S11-0-6"**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:25:00 PM**Lab ID:** 2007413-030**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/12/2020 2:33:22 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/12/2020 2:33:22 AM
Surr: DNOP	41.6	55.1-146	S	%Rec	1	7/12/2020 2:33:22 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 5:20:11 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 5:06:11 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 5:06:11 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 5:06:11 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2020 5:06:11 PM
Surr: 1,2-Dichloroethane-d4	94.8	70-130		%Rec	1	7/12/2020 5:06:11 PM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	7/12/2020 5:06:11 PM
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	7/12/2020 5:06:11 PM
Surr: Toluene-d8	100	70-130		%Rec	1	7/12/2020 5:06:11 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 5:06:11 PM
Surr: BFB	103	70-130		%Rec	1	7/12/2020 5:06:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S11-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:30:00 PM**Lab ID:** 2007413-031**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/12/2020 2:57:50 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/12/2020 2:57:50 AM
Surr: DNOP	53.9	55.1-146	S	%Rec	1	7/12/2020 2:57:50 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 5:32:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 5:36:43 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 5:36:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 5:36:43 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 5:36:43 PM
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%Rec	1	7/12/2020 5:36:43 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	7/12/2020 5:36:43 PM
Surr: Dibromofluoromethane	95.4	70-130		%Rec	1	7/12/2020 5:36:43 PM
Surr: Toluene-d8	107	70-130		%Rec	1	7/12/2020 5:36:43 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 5:36:43 PM
Surr: BFB	107	70-130		%Rec	1	7/12/2020 5:36:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S11-2'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:35:00 PM**Lab ID:** 2007413-032**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	7/12/2020 3:22:05 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/12/2020 3:22:05 AM
Surr: DNOP	66.6	55.1-146		%Rec	1	7/12/2020 3:22:05 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 5:44:52 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 6:07:12 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 6:07:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 6:07:12 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 6:07:12 PM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	7/12/2020 6:07:12 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	7/12/2020 6:07:12 PM
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	7/12/2020 6:07:12 PM
Surr: Toluene-d8	100	70-130		%Rec	1	7/12/2020 6:07:12 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 6:07:12 PM
Surr: BFB	106	70-130		%Rec	1	7/12/2020 6:07:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S12-0-6"**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:40:00 PM**Lab ID:** 2007413-033**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/12/2020 3:46:34 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/12/2020 3:46:34 AM
Surr: DNOP	35.9	55.1-146	S	%Rec	1	7/12/2020 3:46:34 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 5:57:11 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 6:37:35 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 6:37:35 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 6:37:35 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 6:37:35 PM
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%Rec	1	7/12/2020 6:37:35 PM
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	7/12/2020 6:37:35 PM
Surr: Dibromofluoromethane	97.8	70-130		%Rec	1	7/12/2020 6:37:35 PM
Surr: Toluene-d8	100	70-130		%Rec	1	7/12/2020 6:37:35 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 6:37:35 PM
Surr: BFB	108	70-130		%Rec	1	7/12/2020 6:37:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S12-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:45:00 PM**Lab ID:** 2007413-034**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	7/12/2020 4:10:45 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/12/2020 4:10:45 AM
Surr: DNOP	99.9	55.1-146		%Rec	1	7/12/2020 4:10:45 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 6:09:32 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 7:07:45 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 7:07:45 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 7:07:45 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 7:07:45 PM
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	1	7/12/2020 7:07:45 PM
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	7/12/2020 7:07:45 PM
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	7/12/2020 7:07:45 PM
Surr: Toluene-d8	100	70-130		%Rec	1	7/12/2020 7:07:45 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 7:07:45 PM
Surr: BFB	105	70-130		%Rec	1	7/12/2020 7:07:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S12-2'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:50:00 PM**Lab ID:** 2007413-035**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/12/2020 4:35:08 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/12/2020 4:35:08 AM
Surr: DNOP	126	55.1-146		%Rec	1	7/12/2020 4:35:08 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 6:21:54 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 7:37:47 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 7:37:47 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 7:37:47 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 7:37:47 PM
Surr: 1,2-Dichloroethane-d4	97.3	70-130		%Rec	1	7/12/2020 7:37:47 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	7/12/2020 7:37:47 PM
Surr: Dibromofluoromethane	97.9	70-130		%Rec	1	7/12/2020 7:37:47 PM
Surr: Toluene-d8	99.4	70-130		%Rec	1	7/12/2020 7:37:47 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 7:37:47 PM
Surr: BFB	106	70-130		%Rec	1	7/12/2020 7:37:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S13-0-6"**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 12:55:00 PM**Lab ID:** 2007413-036**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/12/2020 4:59:19 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/12/2020 4:59:19 AM
Surr: DNOP	41.3	55.1-146	S	%Rec	1	7/12/2020 4:59:19 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 6:34:14 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.024		mg/Kg	1	7/12/2020 8:07:43 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 8:07:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 8:07:43 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/12/2020 8:07:43 PM
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	7/12/2020 8:07:43 PM
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	7/12/2020 8:07:43 PM
Surr: Dibromofluoromethane	91.7	70-130		%Rec	1	7/12/2020 8:07:43 PM
Surr: Toluene-d8	99.0	70-130		%Rec	1	7/12/2020 8:07:43 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 8:07:43 PM
Surr: BFB	105	70-130		%Rec	1	7/12/2020 8:07:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S13-1'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 1:00:00 PM**Lab ID:** 2007413-037**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/12/2020 5:23:42 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/12/2020 5:23:42 AM
Surr: DNOP	107	55.1-146		%Rec	1	7/12/2020 5:23:42 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 6:46:34 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 8:37:38 PM
Toluene	ND	0.049		mg/Kg	1	7/12/2020 8:37:38 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/12/2020 8:37:38 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/12/2020 8:37:38 PM
Surr: 1,2-Dichloroethane-d4	96.7	70-130		%Rec	1	7/12/2020 8:37:38 PM
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	7/12/2020 8:37:38 PM
Surr: Dibromofluoromethane	94.5	70-130		%Rec	1	7/12/2020 8:37:38 PM
Surr: Toluene-d8	96.6	70-130		%Rec	1	7/12/2020 8:37:38 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/12/2020 8:37:38 PM
Surr: BFB	106	70-130		%Rec	1	7/12/2020 8:37:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2007413

Date Reported: 7/17/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S13-2'**Project:** Shuart 23 Fed Com#1**Collection Date:** 7/8/2020 1:00:00 PM**Lab ID:** 2007413-038**Matrix:** SOIL**Received Date:** 7/9/2020 9:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/12/2020 5:47:53 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/12/2020 5:47:53 AM
Surr: DNOP	66.0	55.1-146		%Rec	1	7/12/2020 5:47:53 AM
EPA METHOD 300.0: ANIONS						
Chloride	ND	60		mg/Kg	20	7/14/2020 7:23:37 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						
Benzene	ND	0.025		mg/Kg	1	7/12/2020 9:07:24 PM
Toluene	ND	0.050		mg/Kg	1	7/12/2020 9:07:24 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/12/2020 9:07:24 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/12/2020 9:07:24 PM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%Rec	1	7/12/2020 9:07:24 PM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	7/12/2020 9:07:24 PM
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	7/12/2020 9:07:24 PM
Surr: Toluene-d8	94.5	70-130		%Rec	1	7/12/2020 9:07:24 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2020 9:07:24 PM
Surr: BFB	104	70-130		%Rec	1	7/12/2020 9:07:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: MB-53665	SampType: mblk	TestCode: EPA Method 300.0: Anions									
Client ID: PBS	Batch ID: 53665	RunNo: 70304									
Prep Date: 7/13/2020	Analysis Date: 7/13/2020	SeqNo: 2443770 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID: LCS-53665	SampType: Ics	TestCode: EPA Method 300.0: Anions									
Client ID: LCSS	Batch ID: 53665	RunNo: 70304									
Prep Date: 7/13/2020	Analysis Date: 7/13/2020	SeqNo: 2443771 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	93.1	90	110				

Sample ID: MB-53681	SampType: mblk	TestCode: EPA Method 300.0: Anions									
Client ID: PBS	Batch ID: 53681	RunNo: 70304									
Prep Date: 7/13/2020	Analysis Date: 7/13/2020	SeqNo: 2443811 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID: LCS-53681	SampType: Ics	TestCode: EPA Method 300.0: Anions									
Client ID: LCSS	Batch ID: 53681	RunNo: 70304									
Prep Date: 7/13/2020	Analysis Date: 7/13/2020	SeqNo: 2443812 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	94.3	90	110				

Sample ID: MB-53696	SampType: mblk	TestCode: EPA Method 300.0: Anions									
Client ID: PBS	Batch ID: 53696	RunNo: 70327									
Prep Date: 7/14/2020	Analysis Date: 7/14/2020	SeqNo: 2444984 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID: LCS-53696	SampType: Ics	TestCode: EPA Method 300.0: Anions									
Client ID: LCSS	Batch ID: 53696	RunNo: 70327									
Prep Date: 7/14/2020	Analysis Date: 7/14/2020	SeqNo: 2444986 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	93.5	90	110				

Qualifiers:											
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank								
D	Sample Diluted Due to Matrix	E	Value above quantitation range								
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits								
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range								
PQL	Practical Quantitative Limit	RL	Reporting Limit								
S	% Recovery outside of range due to dilution or matrix										

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC
Project: Shuqart 23 Fed Com#1

Sample ID: MB-53629	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID: 53629	RunNo: 70238									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442220 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	12		10.00			121	55.1		146		

Sample ID: LCS-53629	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 53629	RunNo: 70238									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442221 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	53	10	50.00	0	106	70	130				
Surr: DNOP	4.9		5.000			97.0	55.1		146		

Sample ID: 2007413-003AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S1-2'	Batch ID: 53630	RunNo: 70235									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442323 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	9.2	46.00	3.565	103	47.4	136				
Surr: DNOP	3.9		4.600			85.2	55.1		146		

Sample ID: 2007413-003AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S1-2'	Batch ID: 53630	RunNo: 70235									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442324 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	55	9.3	46.38	3.565	110	47.4	136	6.76	43.4		
Surr: DNOP	6.0		4.638			129	55.1	0	0		

Sample ID: 2007413-023AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S8-1'	Batch ID: 53633	RunNo: 70235									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442345 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	140	9.9	49.55	88.18	104	47.4	136				
Surr: DNOP	4.6		4.955			92.4	55.1		146		

Qualifiers:											
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank								
D	Sample Diluted Due to Matrix	E	Value above quantitation range								
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits								
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range								
PQL	Practical Quantitative Limit	RL	Reporting Limit								
S	% Recovery outside of range due to dilution or matrix										

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: 2007413-023AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: S8-1'	Batch ID: 53633	RunNo: 70235									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442346 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	130	9.7	48.31	88.18	80.4	47.4	136	9.38	43.4		
Surr: DNOP	5.4		4.831		113	55.1	146	0	0		
Sample ID: LCS-53583	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 53583	RunNo: 70235									
Prep Date: 7/9/2020	Analysis Date: 7/10/2020	SeqNo: 2442380 Units: %Rec									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.1		5.000		81.1	55.1	146				
Sample ID: LCS-53630	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 53630	RunNo: 70235									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442382 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	63	10	50.00	0	125	70	130				
Surr: DNOP	4.7		5.000		94.2	55.1	146				
Sample ID: LCS-53633	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 53633	RunNo: 70235									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442383 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	65	10	50.00	0	130	70	130				
Surr: DNOP	3.9		5.000		77.4	55.1	146				
Sample ID: MB-53583	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID: 53583	RunNo: 70235									
Prep Date: 7/9/2020	Analysis Date: 7/10/2020	SeqNo: 2442385 Units: %Rec									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	9.1		10.00		90.7	55.1	146				
Sample ID: MB-53630	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID: 53630	RunNo: 70235									
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442386 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: MB-53630	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53630	RunNo: 70235								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442386 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		94.8	55.1	146			

Sample ID: MB-53633	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53633	RunNo: 70235								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442387 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.0	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: 2007413-004ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S2-0-6"	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2442101 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.53	0	80.0	80	120			
Surr: BFB	900		981.4		91.9	66.6	105			

Sample ID: 2007413-004amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: S2-0-6"	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2442102 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.70	0	82.3	80	120	3.50	20	
Surr: BFB	870		988.1		87.9	66.6	105	0	0	

Sample ID: LCS-53620	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442130 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.2	80	120			
Surr: BFB	890		1000		88.9	66.6	105			

Sample ID: mb-53620	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442131 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	810		1000		81.1	66.6	105			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: 2007413-003ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S1-2'	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442138 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9921	0	101	78.5	119			
Toluene	1.0	0.050	0.9921	0	101	75.7	123			
Ethylbenzene	1.0	0.050	0.9921	0	101	74.3	126			
Xylenes, Total	3.1	0.099	2.976	0	103	72.9	130			
Surr: 4-Bromofluorobenzene	1.0		0.9921		105	80	120			

Sample ID: 2007413-003amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S1-2'	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442139 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9823	0	103	78.5	119	1.37	20	
Toluene	1.0	0.049	0.9823	0	103	75.7	123	0.785	20	
Ethylbenzene	1.0	0.049	0.9823	0	104	74.3	126	2.04	20	
Xylenes, Total	3.1	0.098	2.947	0	106	72.9	130	1.45	20	
Surr: 4-Bromofluorobenzene	1.0		0.9823		105	80	120	0	0	

Sample ID: LCS-53620	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442170 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID: mb-53620	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53620	RunNo: 70267								
Prep Date: 7/10/2020	Analysis Date: 7/11/2020	SeqNo: 2442171 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: mb-53624	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 53624	RunNo: 70264								
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2441963 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48	0.5000		96.5	70	130				
Surr: 4-Bromofluorobenzene	0.47	0.5000		94.7	70	130				
Surr: Dibromofluoromethane	0.48	0.5000		96.9	70	130				
Surr: Toluene-d8	0.50	0.5000		99.8	70	130				

Sample ID: Ics-53624	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 53624	RunNo: 70264								
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2441964 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.48	0.5000		95.3	70	130				
Surr: 4-Bromofluorobenzene	0.43	0.5000		86.9	70	130				
Surr: Dibromofluoromethane	0.48	0.5000		95.4	70	130				
Surr: Toluene-d8	0.51	0.5000		101	70	130				

Sample ID: 2007413-023ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S8-1'	Batch ID: 53624	RunNo: 70264								
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2441966 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9814	0	112	71.1	115			
Toluene	1.1	0.049	0.9814	0	109	79.6	132			
Ethylbenzene	1.1	0.049	0.9814	0	110	83.8	134			
Xylenes, Total	3.2	0.098	2.944	0	108	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.48	0.4907		98.5	70	130				
Surr: 4-Bromofluorobenzene	0.45	0.4907		91.4	70	130				
Surr: Dibromofluoromethane	0.49	0.4907		100	70	130				
Surr: Toluene-d8	0.50	0.4907		103	70	130				

Qualifiers:	
*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: 2007413-023amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: S8-1'	Batch ID: 53624	RunNo: 70264								
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2441967 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9911	0	116	71.1	115	4.85	20	S
Toluene	1.1	0.050	0.9911	0	113	79.6	132	5.12	20	
Ethylbenzene	1.1	0.050	0.9911	0	113	83.8	134	3.87	20	
Xylenes, Total	3.4	0.099	2.973	0	114	82.4	132	5.85	20	
Surr: 1,2-Dichloroethane-d4	0.47		0.4955		95.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4955		91.4	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4955		100	70	130	0	0	
Surr: Toluene-d8	0.50		0.4955		102	70	130	0	0	

Sample ID: mb-53614	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 53614	RunNo: 70265								
Prep Date: 7/9/2020	Analysis Date: 7/11/2020	SeqNo: 2442043 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		107	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.1	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.50		0.5000		99.2	70	130			

Sample ID: Ics-53614	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 53614	RunNo: 70265								
Prep Date: 7/9/2020	Analysis Date: 7/11/2020	SeqNo: 2442044 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 1,2-Dichloroethane-d4	0.55		0.5000		110	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.48		0.5000		96.4	70	130			

Qualifiers:										
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank							
D	Sample Diluted Due to Matrix	E	Value above quantitation range							
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits							
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range							
PQL	Practical Quantitative Limit	RL	Reporting Limit							
S	% Recovery outside of range due to dilution or matrix									

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: mb-53624	SampType: MLBK	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: PBS	Batch ID: 53624	RunNo: 70264									
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2441997 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	520		500.0		104	70	130				
Sample ID: Ics-53624	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: LCSS	Batch ID: 53624	RunNo: 70264									
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2441998 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.1	70	130				
Surr: BFB	520		500.0		104	70	130				
Sample ID: mb-53614	SampType: MLBK	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: PBS	Batch ID: 53614	RunNo: 70265									
Prep Date: 7/9/2020	Analysis Date: 7/11/2020	SeqNo: 2442071 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	450		500.0		89.8	70	130				
Sample ID: Ics-53614	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: LCSS	Batch ID: 53614	RunNo: 70265									
Prep Date: 7/9/2020	Analysis Date: 7/11/2020	SeqNo: 2442072 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	19	5.0	25.00	0	75.9	70	130				
Surr: BFB	480		500.0		96.2	70	130				
Sample ID: 2007413-024ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: S8-2'	Batch ID: 53624	RunNo: 70276									
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2442809 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	24.75	0	102	70	130				
Surr: BFB	520		495.0		105	70	130				
Sample ID: 2007413-024amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: S8-2'	Batch ID: 53624	RunNo: 70276									
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2442810 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2007413

17-Jul-20

Client: Pima Environmental Services LLC**Project:** Shuqart 23 Fed Com#1

Sample ID: 2007413-024amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: S8-2'	Batch ID: 53624	RunNo: 70276									
Prep Date: 7/10/2020	Analysis Date: 7/12/2020	SeqNo: 2442810 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	24.85	0	99.4	70	130	2.38	20		
Surr: BFB	510		497.0		102	70	130	0	0		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 48 of 48



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Pima Environmental Services LLC

Work Order Number: 2007413

RcptNo: 1

Received By: Juan Rojas

7/9/2020 9:18:00 AM

Juan Rojas

Completed By: Juan Rojas

7/9/2020 10:27:18 AM

Juan Rojas

Reviewed By:

EM 7/9/20

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
12. Are matrices correctly identified on Chain of Custody? Yes No
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH:
<2 or >12 unless noted
Adjusted? _____
Checked by: *JR 7/9/20*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	Date
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				

Chain-of-Custody Record

Client: Pima Environmental
Mailing Address: 1601 N. Turner STE 500 Hobbs, NM 88240
Phone #: 575-631-6977
email or Fax#: chris@PimaOil.com
QA/QC Package:
 Standard Level 4 (Full Validation)
Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush _____
Project Name: Shugart 23 Fed Com #1
Project #: WBS# 20778842
Project Manager: chris JONES

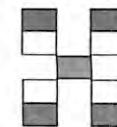
Sampler:
On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 0.8-0.1=0.7 (°C)

Container Type and # Preservative Type HEAL No.

7007413



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	BTEX / MTBE / TMB's (8021)	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride
7/8/20	1100		SS-0-6"	GLASS ICE -013				
	1105		SS-1'		-014			
	1110		SS-2'		-015			
	1115		S6-0-6"		-016			
	1120		S6-1'		-017			
	1125		S6-2'		-018			
	1130		S7-0-6"		-019			
	1135		S7-1'		-020			
	1140		S7-2'		-021			
	1145		S8-0-6"		-022			
	1150		S8-1'		-023			
	1155		S8-2'		-024			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	Remarks:
7/8/20		Mark Newcomb	Acummings		7/8/20	1530	Devon Direct Bill 2084
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	
7/8/20	1900	Acummings		courier	7/9/20	9:18	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

Chain-of-Custody Record

Client: Pima Environmental



Mailing Address: 1601 N. Turner St ESSO
Hobbs, NM 88240

Phone #: 575-631-6977

email or Fax#: chris@pimmoil.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

Project Name:
Shugart 23 Fed Com #1

Project #: 20778842

20778842

Project Manager:
Chris Jones

Sampler:
On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 0.8-0.1=0.7 (°C)

Container Type and # Preservative Type HEAL No.

Glass ICE 2007113

Date Time Matrix Sample Name

7/8/20 1200 S9 - 0 - 6" Glass ICE -025

1205 S9 - 1' | | -026

1210 S10 - 0 - 6" | | -027

1215 S10 - 1' | | -028

1220 S10 - 2' | | -029

1225 S11 - 0 - 6" | | -030

1230 S11 - 1' | | -031

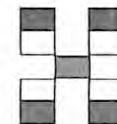
1235 S11 - 2' | | -032

1240 S12 - 0 - 6" | | -033

1245 S12 - 1' | | -034

1250 S12 - 2' | | -035

1255 S13 - 0 - 6" | | -036



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Total Coolant (Present/Absent)	Chloride
8270 (Semi-VOA)	8260 (VOA)
PAHs by 8310 or 8270 SIMS	RCRA 8 Metals
EDB (Method 5041)	TPH:8015D(GRO / DRO / MRO)
8081 Peatides/8082 PCB's	BTEX / MTBE / TMB's (8021)
C1, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	

Date	Time	Relinquished by:	Received by:	Via:	Date	Time	Remarks:
7/8/20	1200	Mark Newcomb	Acummings	7/8/20 1530			Door Direct Bill
7/8/20	1900	Cummings	Jay	courier 7/9/20 9:18			3 of 4

Chain-of-Custody Record

Client: Pima Environmental

Mailing Address: 1601 N. Turner St E500
Hobbs, NM 88240

Phone #: 505-1031-6977

email or Fax#: chris@pima-oil.com

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:
 Standard Rush _____

Project Name:
Shugart 23 Fed Com #1

Project #: WBS #
2077 8842

Project Manager:
Chris Jones

Sampler:

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 0.8-0.1=0.7 (°C)

Container Type and #	Preservative Type	HEAL No.
GLASS	ICE	2007413

-037

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

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Chloride

8260 (VOA)

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PAHs by 8310 or 8270SIMS

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8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

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PAHs by 8310 or 8270SIMS

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Chloride

8260 (VOA)

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TPH:8015D(GRO / DRO / MRO)

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Chloride

8260 (VOA)

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C1, F, Br, NO₂, NO₃, PO₄, SO₄

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PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

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8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

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8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)

Chloride

8260 (VOA)

EDB (Method 504)

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Peastides/8082 PCB's

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

8260 (VOA)

C1, F, Br, NO₂, NO₃, PO₄, SO₄

Total Coliform (Present/Absent)

8270 (Semi-VOA)



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

October 27, 2020

Chris Jones

Pima Environmental Services LLC
1601 N. Turner Ste 500
Hobbs, NM 88240
TEL: (575) 631-6977
FAX:

RE: Shugarts 23 Fed Com 1

OrderNo.: 2010A67

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/22/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2010A67

Date Reported: 10/27/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S4**Project:** Shugarts 23 Fed Com 1**Collection Date:** 10/21/2020 2:15:00 PM**Lab ID:** 2010A67-001**Matrix:** SOIL**Received Date:** 10/22/2020 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	10/23/2020 1:30:38 PM	55992
Motor Oil Range Organics (MRO)	79	49		mg/Kg	1	10/23/2020 1:30:38 PM	55992
Surr: DNOP	102	30.4-154		%Rec	1	10/23/2020 1:30:38 PM	55992
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/24/2020 8:25:59 AM	55990
Surr: BFB	93.1	75.3-105		%Rec	1	10/24/2020 8:25:59 AM	55990

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2010A67

Date Reported: 10/27/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S5**Project:** Shugarts 23 Fed Com 1**Collection Date:** 10/21/2020 2:20:00 PM**Lab ID:** 2010A67-002**Matrix:** SOIL**Received Date:** 10/22/2020 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/23/2020 1:50:22 PM	55992
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/23/2020 1:50:22 PM	55992
Surr: DNOP	93.7	30.4-154		%Rec	1	10/23/2020 1:50:22 PM	55992
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/24/2020 8:49:22 AM	55990
Surr: BFB	92.9	75.3-105		%Rec	1	10/24/2020 8:49:22 AM	55990

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 2010A67

Date Reported: 10/27/2020

CLIENT: Pima Environmental Services LLC**Client Sample ID:** S6**Project:** Shugarts 23 Fed Com 1**Collection Date:** 10/21/2020 2:25:00 PM**Lab ID:** 2010A67-003**Matrix:** SOIL**Received Date:** 10/22/2020 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	10/23/2020 2:00:23 PM	55992
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	10/23/2020 2:00:23 PM	55992
Surr: DNOP	110	30.4-154		%Rec	1	10/23/2020 2:00:23 PM	55992
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/24/2020 9:12:49 AM	55990
Surr: BFB	94.2	75.3-105		%Rec	1	10/24/2020 9:12:49 AM	55990

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

Page 3 of 5

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2010A67

27-Oct-20

Client: Pima Environmental Services LLC**Project:** Shugarts 23 Fed Com 1

Sample ID: LCS-55992	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 55992	RunNo: 72876									
Prep Date: 10/22/2020	Analysis Date: 10/23/2020	SeqNo: 2562831 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	70	130				
Surr: DNOP	4.7		5.000		93.4	30.4	154				

Sample ID: MB-55992	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID: 55992	RunNo: 72876									
Prep Date: 10/22/2020	Analysis Date: 10/23/2020	SeqNo: 2562833 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.3		10.00		92.5	30.4	154				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2010A67

27-Oct-20

Client: Pima Environmental Services LLC**Project:** Shugarts 23 Fed Com 1

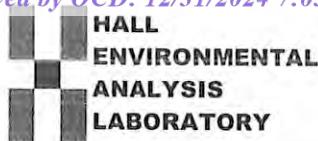
Sample ID: Ics-55990	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 55990	RunNo: 72897								
Prep Date: 10/22/2020	Analysis Date: 10/24/2020	SeqNo: 2562395 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.0	72.5	106			
Surr: BFB	1100		1000		107	75.3	105			S

Sample ID: mb-55990	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 55990	RunNo: 72897								
Prep Date: 10/22/2020	Analysis Date: 10/24/2020	SeqNo: 2562397 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.1	75.3	105			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
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 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Pima Environmental Services LLC Work Order Number: 2010A67 RcptNo: 1

Received By: Isaiah Ortiz 10/22/2020 7:40:00 AM *I.O.*

Completed By: Emily Mocho 10/22/2020 12:17:08 PM

Reviewed By: *JR 10/22/20*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA
4. Were all samples received at a temperature of >0° C to 6.0° C Yes No NA
5. Sample(s) in proper container(s)? Yes No
6. Sufficient sample volume for indicated test(s)? Yes No
7. Are samples (except VOA and ONG) properly preserved? Yes No
8. Was preservative added to bottles? Yes No NA
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA
10. Were any sample containers received broken? Yes No *TO*
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No *# of preserved bottles checked for pH:
<2 or >12 unless noted*
12. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?
13. Is it clear what analyses were requested? Yes No
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No Checked by: *10/22/20*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				



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

December 04, 2020

CHRIS JONES
PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS, NM 88240

RE: SHUGART 23 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 11/30/20 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is 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,

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:

PIMA ENVIRONMENTAL
1601 N TURNER STE. 500
HOBBS NM, 88240

Project: SHUGART 23 FED COM #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
04-Dec-20 15:58

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
------------------	----------------------	---------------	---------------------	----------------------

S - 9	H003127-01	Soil	25-Nov-20 10:00	30-Nov-20 12:30
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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 or 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 damage 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.

A handwritten signature in black ink that appears to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIRONMENTAL
1601 N TURNER STE. 500
HOBBS NM, 88240

Project: SHUGART 23 FED COM #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
04-Dec-20 15:58

S - 9**H003127-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	0113010	MS	01-Dec-20	8021B
Toluene*	<0.050	0.050	mg/kg	50	0113010	MS	01-Dec-20	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	0113010	MS	01-Dec-20	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	0113010	MS	01-Dec-20	8021B
Total BTEX	<0.300	0.300	mg/kg	50	0113010	MS	01-Dec-20	8021B

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 0113010 MS 01-Dec-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0120103	MS	01-Dec-20	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0120103	MS	01-Dec-20	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0120103	MS	01-Dec-20	8015B
Surrogate: 1-Chlorooctane		114 %		44.3-144	0120103	MS	01-Dec-20	8015B
Surrogate: 1-Chlorooctadecane		120 %		42.2-156	0120103	MS	01-Dec-20	8015B

Cardinal Laboratories

*=Accredited Analyte

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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:

PIMA ENVIRONMENTAL
1601 N TURNER STE. 500
HOBBS NM, 88240

Project: SHUGART 23 FED COM #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
04-Dec-20 15:58

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	RPD Limit	Notes
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Batch 0113010 - Volatiles

Blank (0113010-BLK1)					Prepared: 30-Nov-20 Analyzed: 01-Dec-20					
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)	0.0509		mg/kg	0.0500		102	73.3-129			
LCS (0113010-BS1)					Prepared: 30-Nov-20 Analyzed: 01-Dec-20					
Benzene	1.96	0.050	mg/kg	2.00		98.2	72.2-131			
Toluene	1.89	0.050	mg/kg	2.00		94.3	71.7-126			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.7	68.9-126			
Total Xylenes	5.64	0.150	mg/kg	6.00		94.0	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	73.3-129			
LCS Dup (0113010-BSD1)					Prepared: 30-Nov-20 Analyzed: 01-Dec-20					
Benzene	2.05	0.050	mg/kg	2.00		103	72.2-131	4.41	14.6	
Toluene	1.97	0.050	mg/kg	2.00		98.7	71.7-126	4.60	17.4	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	68.9-126	4.30	18.9	
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	71.4-125	4.14	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	73.3-129			

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Analytical Results For:

PIMA ENVIROMENTAL
1601 N TURNER STE. 500
HOBBS NM, 88240

Project: SHUGART 23 FED COM #1
Project Number: NONE GIVEN
Project Manager: CHRIS JONES
Fax To:

Reported:
04-Dec-20 15:58

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 0120103 - General Prep - Organics

Blank (0120103-BLK1)					Prepared & Analyzed: 01-Dec-20				
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	45.2		mg/kg	50.0		90.5	44.3-144		
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.4	42.2-156		
LCS (0120103-BS1)					Prepared & Analyzed: 01-Dec-20				
GRO C6-C10	208	10.0	mg/kg	200		104	78.8-127		
DRO >C10-C28	180	10.0	mg/kg	200		89.9	80-132		
Total TPH C6-C28	388	10.0	mg/kg	400		97.0	81.3-128		
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.1	44.3-144		
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.8	42.2-156		
LCS Dup (0120103-BSD1)					Prepared & Analyzed: 01-Dec-20				
GRO C6-C10	220	10.0	mg/kg	200		110	78.8-127	5.58	15.1
DRO >C10-C28	203	10.0	mg/kg	200		101	80-132	12.1	17.1
Total TPH C6-C28	423	10.0	mg/kg	400		106	81.3-128	8.68	15
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	44.3-144		
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	42.2-156		

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Rattie</i>				Date: <u>11-30-20</u>	Received By: <i>Jamara Oldakovic</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:		
Relinquished By:				Time: <u>12:30</u>	Received By:	REMARKS:		
				Date:				
				Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <u>12.7</u> Corrected Temp. °C	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <i>AO</i>	Turnaround Time: Standard Rush Thermometer ID #113 Correction Factor None	<input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No	Observed Temp. °C Corrected Temp. °C	

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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

QUESTIONS

Action 415979

QUESTIONS

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 415979
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1125557019
Incident Name	NMLB1125557019 SHUGART 23 FED COM #1 @ 30-015-30448
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-30448] SHUGART 23 FEDEAL COM #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	SHUGART 23 FED COM #1
Date Release Discovered	09/04/2011
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Production Tank Crude Oil Released: 70 BBL Recovered: 31 BBL Lost: 39 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.

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QUESTIONS, Page 2

Action 415979

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 415979
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Michael Lee Title: COO Email: michael@raybawoperating.com Date: 12/31/2024
--	---

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QUESTIONS, Page 3

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Action 415979

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 415979
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (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)	1800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	94590
GRO+DRO (EPA SW-846 Method 8015M)	91680
BTEX (EPA SW-846 Method 8021B or 8260B)	635.5
Benzene (EPA SW-846 Method 8021B or 8260B)	17.5

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	02/15/2025
On what date will (or did) the final sampling or liner inspection occur	02/22/2025
On what date will (or was) the remediation complete(d)	02/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	4725
What is the estimated volume (in cubic yards) that will be reclaimed	525
What is the estimated surface area (in square feet) that will be remediated	4725
What is the estimated volume (in cubic yards) that will be remediated	525

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 415979

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 415979
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
OR is the off-site disposal site, to be used, an NMED facility	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Michael Lee Title: COO Email: michael@raybawoperating.com Date: 12/31/2024
--	---

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 415979

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 415979
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Deferral Requests Only**

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.

Requesting a deferral of the remediation closure due date with the approval of this submission	No
--	----

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QUESTIONS, Page 6

Action 415979

QUESTIONS (continued)

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 415979
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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Energy, Minerals and Natural Resources
Oil Conservation Division
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CONDITIONS

Action 415979

CONDITIONS

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 415979
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation work plan approved.	1/2/2025
amaxwell	Submit a remediation closure report via the OCD permitting portal by April 4, 2025.	1/2/2025