

**Raybaw Operating, LLC.
2626 Cole Ave., Suite 300
Dallas, TX 75204
214-800-2301**

February 16, 2023

NMOCD District 2
811 S First St.
Artesia, NM, 88210

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

**RE: Site Assessment, Remediation, and Closure Report
Serene Sisters 25 Federal #004H
API No. 30-015-38312
GPS: Latitude 32.711242 Longitude -103.831272
UL "N", Section 25, Township 18S, Range 31E,
Eddy County, NM
NMOCD Reference No. NAB1520255168**

Raybaw Operating, LLC (Raybaw) has contracted Pima Environmental Services, LLC (Pima) to perform a site assessment, remediation, and prepare this closure report for a produced water release that happened west of the Serene Sisters 25 Federal #004H (Serene). An initial C-141 was submitted on July 20, 2015, and can be found in Appendix C. This incident was assigned Incident ID NAB1520255168, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Serene is located approximately eleven (11) miles southeast of Loco Hills, NM. This spill site is in Unit N, Section 25, Township 18S, Range 31E, Latitude 32.711242 Longitude -103.831272, Eddy County, NM. A Location Map can be found in Figure 1.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology in this area is made up of 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. The soil in this area is made up of Berino complex, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Serene (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 430 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 260 feet BGS. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Release Information

NAB1520255168: On July 17, 2015, Rudy Zuniga Devon Energy Production Foreman received a call from Jim Huerta Devon Energy Assistant Production Foreman notifying him that he received a call from Dwayne Concho Lease Operator that there was a leak by the Serene Sisters 25 Fed 4 Battery. Rudy drove to location and found the leak about Vi mile from the battery right next to the lease road into the pasture. From what Rudy observed the hole looked like the line had been shot causing the leak of 6 bbls of produced water. Rudy isolated the line so no more fluid could get out. None of the 6 bbls was recovered. This will have to be assessed for clean-up.

Site Assessment and Liner Inspection

On March 2, 2016, Hungry Horse, LLC submitted a remediation plan for approval to the NMOCD. Later that day the remediation plan was approved by the NMOCD and BLM with conditions. The NMOCD-approved remediation plan can be found in Appendix F.

On July 1, 2020, Pima personnel mobilized to the site to conduct a follow-up assessment and collect new data from the spill area. We collected samples from the area mainly to find out if any previous remediation activities had taken place. The samples were field-screened, and the results can be seen in the following data table. A Site Map can be found in Figure 4.

7-1-20 Field Screened Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Raybaw Operating - Serene Sisters 25 Fed 4H								
Date: 7-1-20		Field Screen Sample 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	1418
	1'-R	ND	ND	ND	ND	ND	ND	354
S-2	0-6"	ND	ND	ND	ND	ND	ND	709
	1'-R	ND	ND	ND	ND	ND	ND	354
S-3	0-6"	ND	ND	ND	ND	ND	ND	ND
	1'	ND	ND	ND	ND	ND	ND	ND
	2'-R	ND	ND	ND	ND	ND	ND	ND
BG-1	0-6"	ND	ND	ND	ND	ND	ND	ND
BG-2	0-6"	ND	ND	ND	ND	ND	ND	ND
BG-3	0-6"	ND	ND	ND	ND	ND	ND	ND
BG-4	0-6"	ND	ND	ND	ND	ND	ND	ND

ND – Analyte Not Detected

Remediation Activities

On July 14, 2020, Pima personnel mobilized to the site to conduct remedial activities base on the approved work plan. An initial area of 30' x 30' was marked off and excavated to a depth of 4' bgs. The excavated material was stockpiled on a plastic liner at the nearby location. A total of four confirmatory samples were collected from the excavation. Five-point composite samples were collected from the stockpiled material. The laboratory results of this sampling event can be seen in the following data table. Photographic Documentation can be found in Appendix D.

7-14-20 Composite Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Raybaw Operating - Serene Sisters 25 Fed 4H								
Date: 7-14-20		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
N. Sidewall Comp	4'	ND	ND	ND	ND	ND	ND	3000
S. Sidewall Comp	4'	ND	ND	ND	ND	ND	ND	ND
E. Sidewall Comp	4'	ND	ND	ND	ND	ND	ND	ND
W. Sidewall Comp	4'	ND	ND	ND	ND	ND	ND	ND
Stockpile 1	--	ND	ND	ND	ND	ND	ND	ND
Stockpile 2	--	ND	ND	ND	ND	ND	ND	ND
Stockpile 3	--	ND	ND	ND	ND	ND	ND	2200
Stockpile 4	--	ND	ND	ND	ND	ND	ND	3200
Stockpile 5	--	ND	ND	ND	ND	ND	ND	160
Stockpile 6	--	ND	ND	ND	ND	ND	ND	830
Stockpile 7	--	ND	ND	ND	ND	ND	ND	400
Stockpile 8	--	ND	ND	ND	ND	ND	ND	ND

ND – Analyte Not Detected

On July 17, 2020, Pima personnel returned to the site to load up and haul off the stockpiled contaminated soil. Stockpiles 3, 4, and 6 were hauled to Lea Land, LLC, an NMOCD-approved disposal facility. A poly liner was installed at the bottom of the excavation. The excavation was then backfilled with the remaining stockpiled material. Clean, fresh topsoil was brought in and used to finish backfilling the top 1.5' of the excavation. The area was then machine compacted and contoured to match the surrounding terrain. A Confirmation Sample Map can be found in Figure 5.

On February 9, 2023, due to contamination still being present at the N. Sidewall Comp area, Pima personnel returned to the site to collect re-confirmation samples from that area. The following data table represents the sample results collected from this sampling event. A Re-Confirmation Sample Map can be found in Figure 6.

2-9-23 Re-Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
Raybaw Operating - Serene Sisters 25 Fed 4H								
Date: 2/9/23		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
CNS1	3'	ND	ND	ND	ND	ND	ND	ND
CNS2	3'	ND	ND	ND	ND	ND	ND	ND
CNS3	3'	ND	ND	ND	ND	ND	ND	ND
CNS1	4'	ND	ND	ND	ND	ND	ND	ND
CNS2	4'	ND	ND	ND	ND	ND	ND	ND
CNS3	4'	ND	ND	ND	ND	ND	ND	ND

ND – Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E.

Closure Request

After careful review, the sample results show that contamination levels are below closure criteria according to Table 1 of NMAC 19.15.29. Pima, on behalf of Raybaw, requests that this incident, NAB1520255168 be closed. Raybaw has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact:

Tom Bynum w/Pima Environmental at 580-748-1613 or tom@pimaoil.com

Nancy Winn w/Raybaw Operating at 281-793-5452 or nwinn@sbcglobal.net

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- Confirmation Sample Map
- 6- Re-Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports
- Appendix F – NMOCD-Approved Remediation Plan



Pima Environmental Services

Figures:

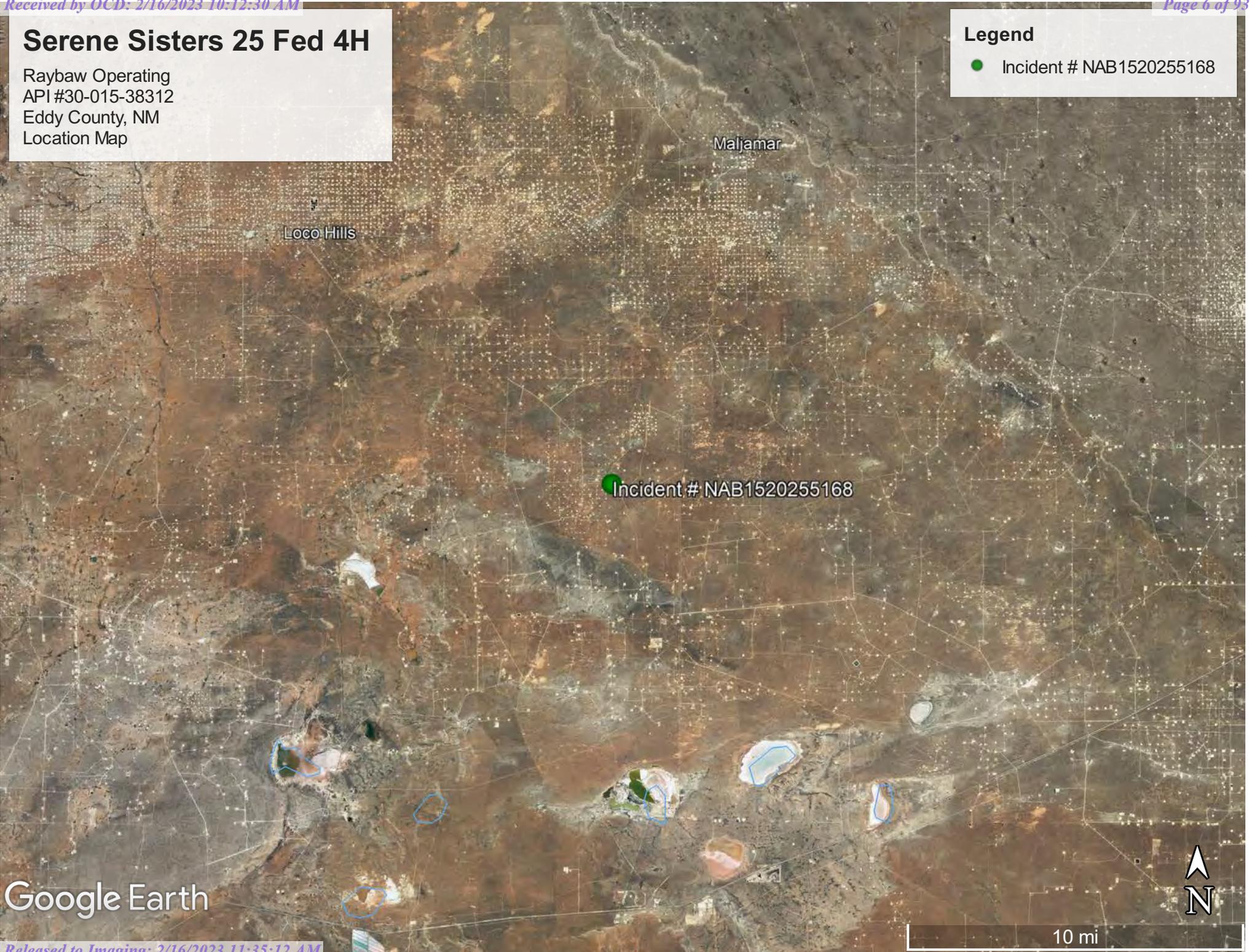
- 1 - Location Map
- 2 - Topographic Map
- 3 - Karst Map
- 4 - Site Map
- 5 - Confirmation Sample Map
- 6 - Re-Confirmation Sample Map

Serene Sisters 25 Fed 4H

Raybaw Operating
API #30-015-38312
Eddy County, NM
Location Map

Legend

● Incident # NAB1520255168



Google Earth



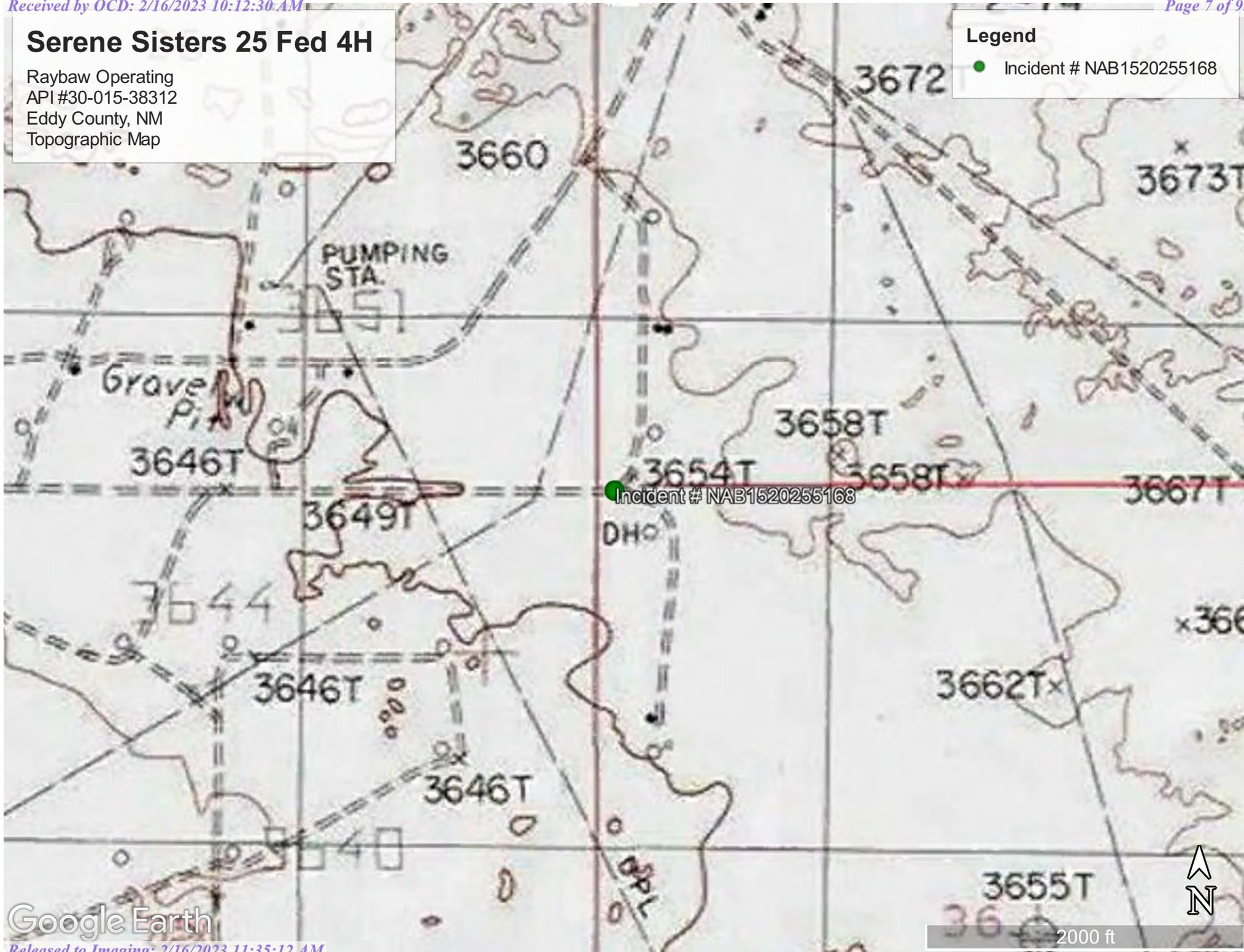
10 mi

Serene Sisters 25 Fed 4H

Raybaw Operating
API #30-015-38312
Eddy County, NM
Topographic Map

Legend

● Incident # NAB1520255168



Serene Sisters 25 Fed 4H

Raybaw Operating
API #30-015-38312
Eddy County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

Incident # NAB1520255168

Google Earth



4 mi

Serene Sisters 25 Fed 4H

Raybaw Operating
API #30-015-38312
Eddy County, NM
Site Map

Legend

- ⊙ Samples & Backgrounds
- Spill Area

 32.711242, -103.831272



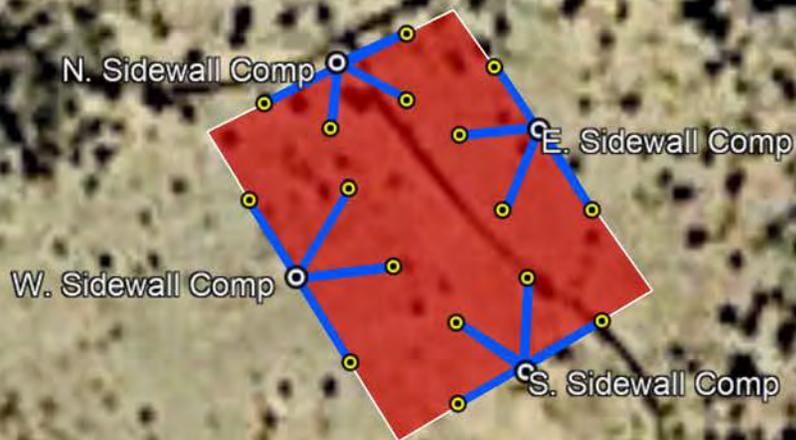
Serene Sisters 25 Fed 4H

Raybaw Operating
API #30-015-38312
Eddy County, NM
Confirmation Sample Map

Legend

- Confirmation Base/Sidewall Comps
- Spill Area

 32.711242, -103.831272



 Serene Sisters 25 Fed 4H - 1,680' East



Serene Sisters 25 Fed 4H

Raybaw Operating
API #30-015-38312
Eddy County, NM
Re-Confirmation Sample Map

Legend

- ⊙ Re-Confirmation Samples
- Spill Area





Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00849 POD1		CP	LE	3	1	3	35	18S	31E	608012	3618757*	1892	300		
CP 00672		CP	LE	4	4	07		18S	32E	612475	3624947*	5858	524	430	94
CP 00672 CLW475398	O	CP	LE	4	4	07		18S	32E	612475	3624947*	5858	540	460	80
CP 00829 POD1		CP	LE	2	4	16		19S	31E	606165	3614009*	6769	120		
CP 01554 POD1		CP	LE	2	2	1	22	19S	31E	607166	3613354	6941	400		
CP 01554 POD2		CP	LE	2	2	1	22	19S	31E	607165	3613322	6972	400		
CP 00563 POD1		CP	LE	1	1	2	19	19S	32E	612118	3613376*	6996	300		
CP 00640 POD1		CP	LE	2	2	19		19S	32E	612621	3613280*	7284	260	102	158
CP 01656 POD2		CP	LE	3	4	3	17	19S	32E	613364	3613648	7312	70		
CP 01656 POD1		CP	LE	3	4	3	17	19S	32E	613368	3613646	7316	70		
CP 01656 POD3		CP	LE	3	4	3	17	19S	32E	613374	3613633	7330	30		
CP 00814 POD1		CP	LE	2	2	08		18S	32E	614074	3626168*	7755	480		
CP 00639 POD1		CP	LE	3	1	20		19S	32E	613029	3612880*	7822	350	345	5

Average Depth to Water: **334 feet**

Minimum Depth: **102 feet**

Maximum Depth: **460 feet**

Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 609536

Northing (Y): 3619879.12

Radius: 8000

*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.

2/4/23 12:36 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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 hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 324159103503801

Minimum number of levels = 1

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

USGS 324159103503801 18S.31E.35.31324

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°42'07.3", Longitude 103°50'50.1" NAD83

Land-surface elevation 3,630 feet above NAVD88

The depth of the well is 300 feet below land surface.

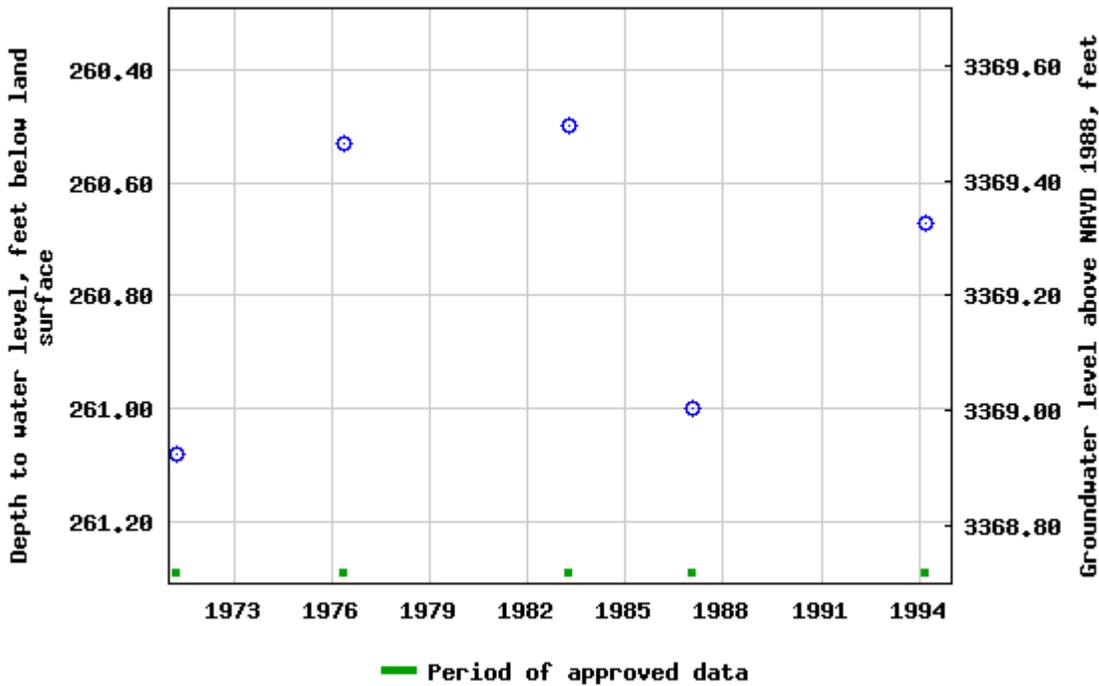
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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 324159103503801 18S.31E.35.31324



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

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[Data Tips](#)

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[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: 2023-02-04 14:38:34 EST

0.55 0.48 nadww02

Serene Sisters 25 Fed 4H

Raybaw Operating
API #30-015-38312
Eddy County, NM
Surface Water Map

Legend

-  7.63 Miles
-  Hackberry Lake



Incident # NAB1520255168

Hackberry Lake





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 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 58 inches: sandy clay loam

H3 - 58 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 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Berino 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: Dunes, plains, interdunes
Landform position (three-dimensional): Side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand
H2 - 9 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: 40 percent
Maximum salinity: Nonsaline (0.0 to 1.0 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

Pajarito

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Wink

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Cacique

Percent of map unit: 4 percent

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

Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Kermit

Percent of map unit: 3 percent
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

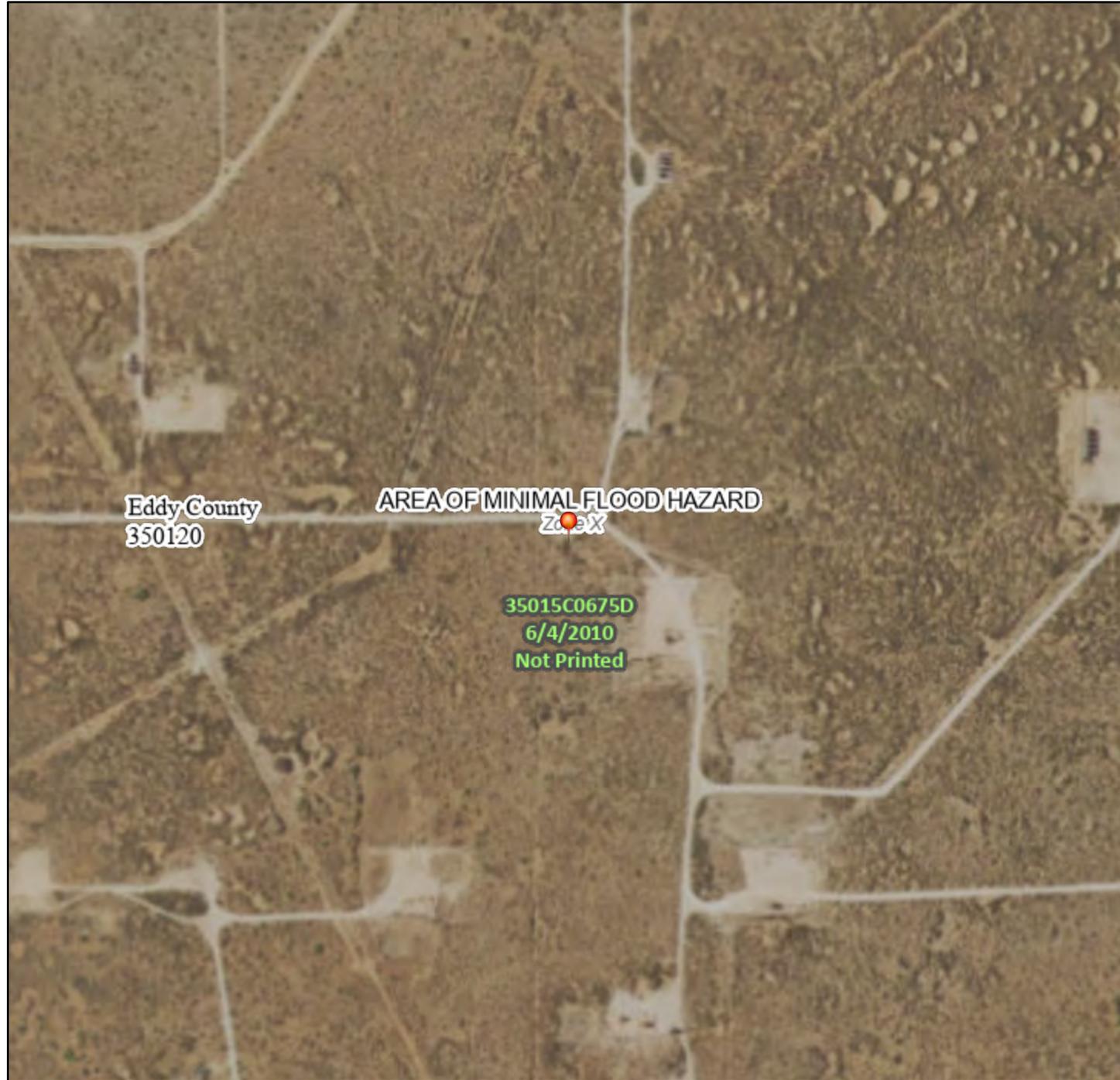
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°50'11"W 32°42'55"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
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

0 250 500 1,500 2,000 Feet 1:6,000 103°49'34"W 32°42'25"N

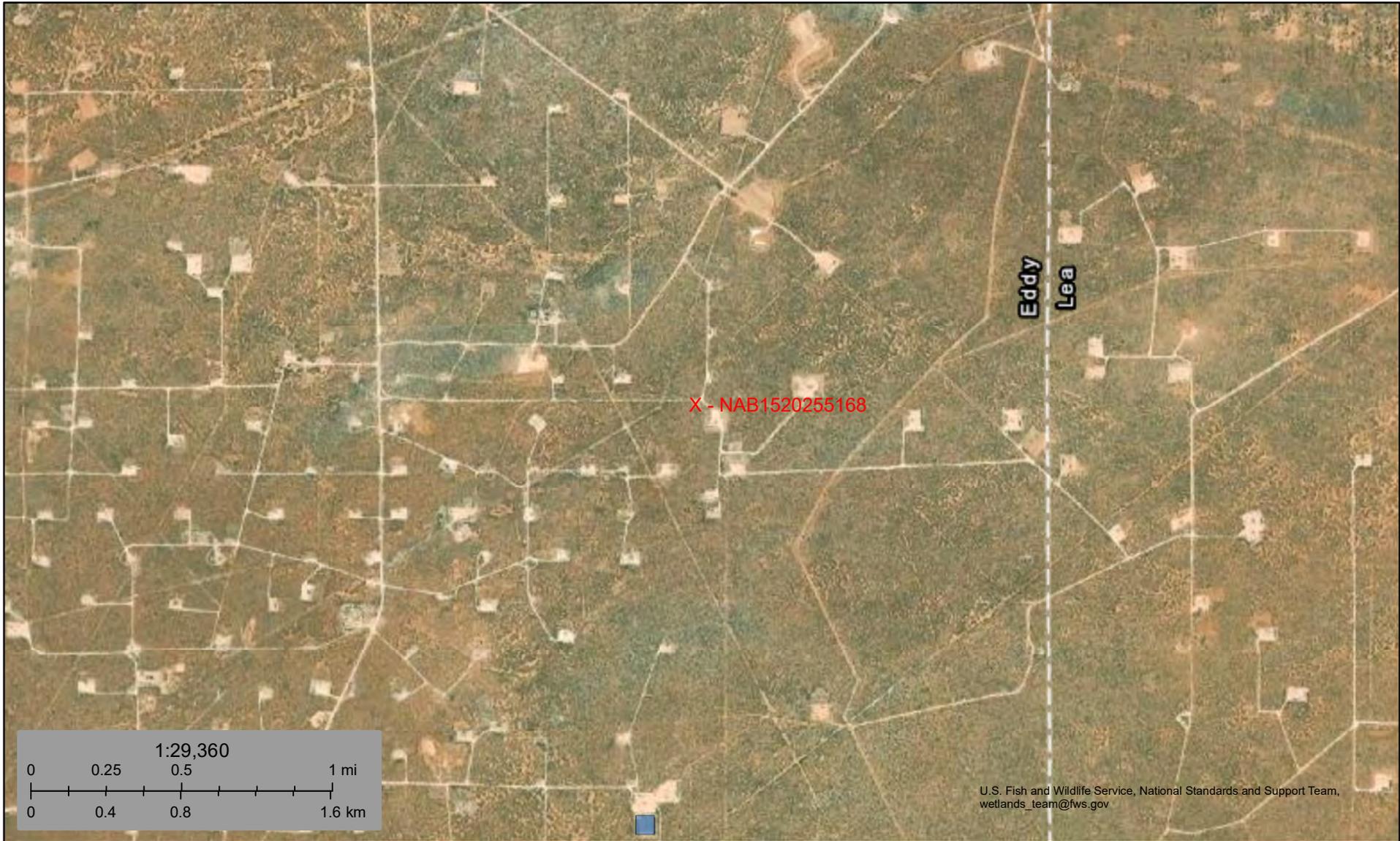
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/4/2023 at 2:42 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.



Wetlands



February 4, 2023

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.



Pima Environmental Services

Appendix C

C-141 Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1520255168

OPERATOR

Initial Report Final Report

Name of Company Devon Energy Production <i>6137</i>	Contact Rudy Zuniga
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575-390-5435
Facility Name Serene Sisters 25 Fed 4	Facility Type Oil

Surface Owner State	Mineral Owner Federal	API No. 30-015-38312
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	25	18S	31E	200	South	1750	West	Eddy

Latitude: N 32°71'10.66"

Longitude: W 103°83'11.82"

NATURE OF RELEASE

Type of Release Spill PW	Volume of Release 6 bbls	Volume Recovered 0 bbls
Source of Release Leak in water line	Date and Hour of Occurrence 7/17/2015 @ 10:30 AM	Date and Hour of Discovery 7/17/2015 @ 10:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones OCD Jim Amos BLM	
By Whom? Rudy Zuniga	Date and Hour 7/17/2015 @ 12:26 PM 7/17/2015 @ 12:30 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

NM OIL CONSERVATION
ARTESIA DISTRICT
JUL 17 2015

RECEIVED

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On July 17, 2015 at 10:39 AM Rudy Zuniga Devon Energy Production Foreman received a call from Jim Huerta Devon Energy Assistant Production Foreman notifying him that he received a call from Dwayne Concho Lease Operator that there was a leak by the Serene Sisters 25 Fed 4 Battery. Rudy drove to location and found the leak about 1/4 mile from the battery right next to the lease road into the pasture. From what Rudy observed the hole looked like the line had been shot causing the leak of 6 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.*

Rudy isolated the line so no more fluid could get out. None of the 6 bbls was recovered. This will have to be assessed for clean up

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>Corina Moya</i>	OIL CONSERVATION DIVISION	
Printed Name: Corina Moya	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Admin Support	Approval Date: 7/21/15	Expiration Date: NIA
E-mail Address: corina.moya@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines attached <input type="checkbox"/>	
Date: 7/20/2015 Phone: 575.746.5559	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 8/22/15

2RP-3141

Serene Sisters 25 Fed 4H

6 BBLS PW on water line

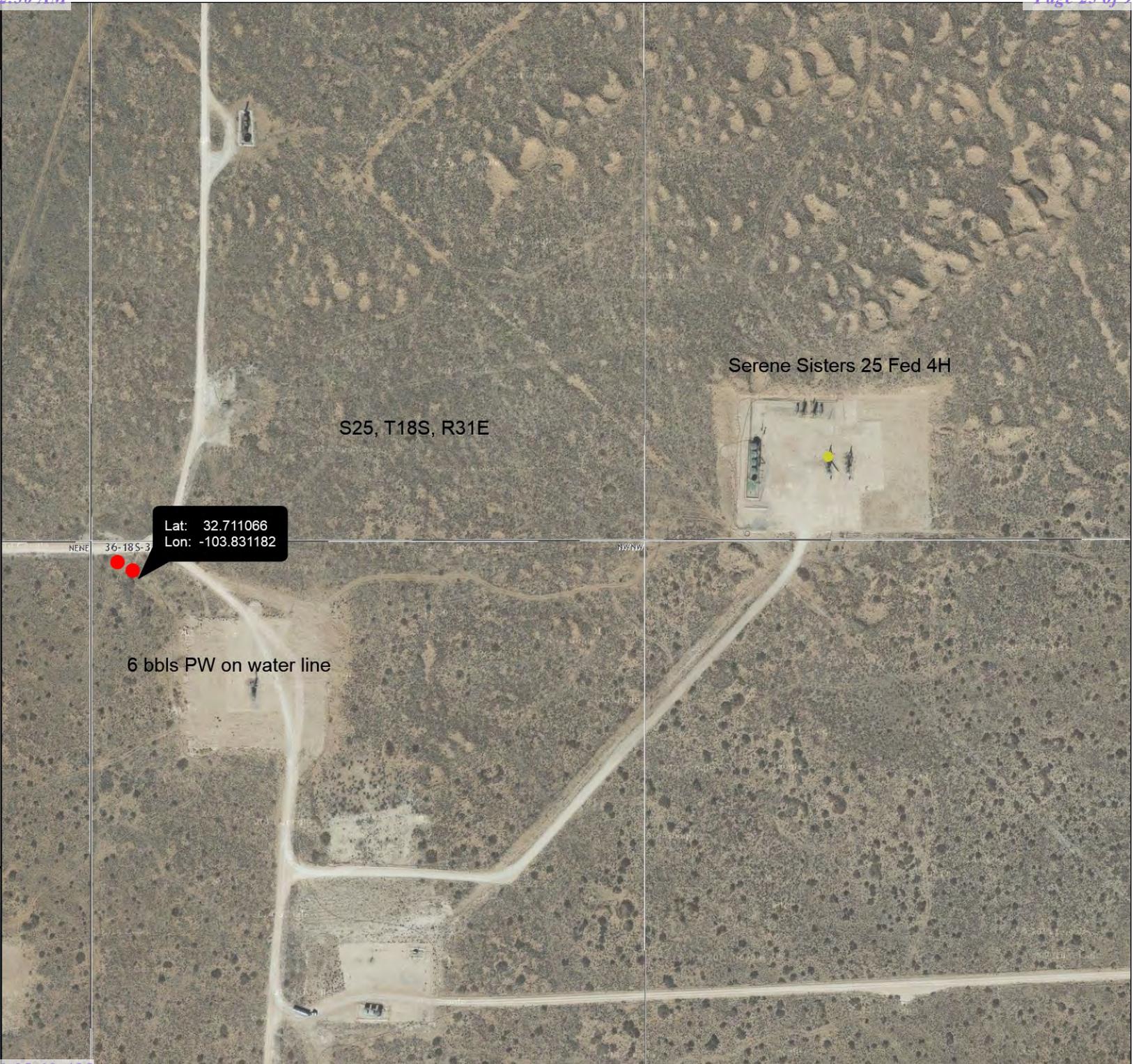
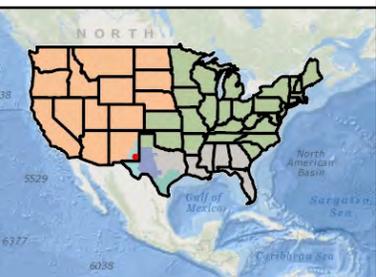


This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere
Prepared by: corina moya
Map is current as of: 20-Jul-2015



Project Outline



Form C-141

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	NAB1520255168
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	< 50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input checked="" type="checkbox"/> Field data <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release <input checked="" type="checkbox"/> Boring or excavation logs <input checked="" type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> Laboratory data including chain of custody

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

Form C-141

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1520255168
District RP	
Facility ID	
Application ID	

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

Printed Name: Nancy J. Winn Title: Geoscience Analyst
 Signature:  Date: 02/16/2023
 email: nwinn@sbcglobal.net Telephone: 281-793-5452

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	NAB1520255168
District RP	
Facility ID	
Application ID	

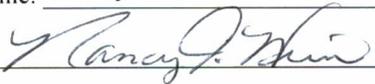
Closure

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

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

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

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

Printed Name: Nancy J. Winn Title: Geoscience Analyst
 Signature:  Date: 02/16/2023
 email: nwinn@sbcglobal.net Telephone: 281-793-5452

OCD Only

Received by: OCD Date: 2/16/2023

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

Closure Approved by:  Date: 2/16/2023
 Printed Name: Ashley Maxwell Title: Environmental Specialist



Pima Environmental Services

Appendix D

Photographic Documentation











Pima Environmental Services

Appendix E

Laboratory Reports



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

July 21, 2020

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

RE: Serene Sisters 25 Fed 4 H

OrderNo.: 2007769

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 12 sample(s) on 7/15/2020 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", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: N. Sidewall Comp

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 1:00:00 PM

Lab ID: 2007769-001

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/16/2020 9:27:57 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/16/2020 9:27:57 AM
Surr: DNOP	117	55.1-146		%Rec	1	7/16/2020 9:27:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2020 9:16:02 AM
Surr: BFB	88.0	66.6-105		%Rec	1	7/16/2020 9:16:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 9:16:02 AM
Toluene	ND	0.049		mg/Kg	1	7/16/2020 9:16:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2020 9:16:02 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/16/2020 9:16:02 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/16/2020 9:16:02 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	3000	150		mg/Kg	50	7/16/2020 1:46:41 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S. Sidewall Comp

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 2:00:00 PM

Lab ID: 2007769-002

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/16/2020 9:57:11 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2020 9:57:11 AM
Surr: DNOP	108	55.1-146		%Rec	1	7/16/2020 9:57:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/16/2020 9:39:27 AM
Surr: BFB	80.8	66.6-105		%Rec	1	7/16/2020 9:39:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 9:39:27 AM
Toluene	ND	0.047		mg/Kg	1	7/16/2020 9:39:27 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/16/2020 9:39:27 AM
Xylenes, Total	ND	0.094		mg/Kg	1	7/16/2020 9:39:27 AM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/16/2020 9:39:27 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	61		mg/Kg	20	7/16/2020 12:53:07 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: E. Sidewall Comp

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 3:00:00 PM

Lab ID: 2007769-003

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/16/2020 10:07:00 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2020 10:07:00 AM
Surr: DNOP	115	55.1-146		%Rec	1	7/16/2020 10:07:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2020 10:02:57 AM
Surr: BFB	86.0	66.6-105		%Rec	1	7/16/2020 10:02:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2020 10:02:57 AM
Toluene	ND	0.049		mg/Kg	1	7/16/2020 10:02:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2020 10:02:57 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2020 10:02:57 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/16/2020 10:02:57 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/16/2020 1:05:28 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: W. Sidewall Comp

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 4:00:00 PM

Lab ID: 2007769-004

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/16/2020 10:16:50 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/16/2020 10:16:50 AM
Surr: DNOP	114	55.1-146		%Rec	1	7/16/2020 10:16:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2020 10:26:29 AM
Surr: BFB	88.0	66.6-105		%Rec	1	7/16/2020 10:26:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/16/2020 10:26:29 AM
Toluene	ND	0.049		mg/Kg	1	7/16/2020 10:26:29 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2020 10:26:29 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2020 10:26:29 AM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/16/2020 10:26:29 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/16/2020 1:42:31 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 1

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 4:30:00 PM

Lab ID: 2007769-005

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/16/2020 10:26:40 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2020 10:26:40 AM
Surr: DNOP	111	55.1-146		%Rec	1	7/16/2020 10:26:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2020 10:49:57 AM
Surr: BFB	86.7	66.6-105		%Rec	1	7/16/2020 10:49:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 10:49:57 AM
Toluene	ND	0.048		mg/Kg	1	7/16/2020 10:49:57 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2020 10:49:57 AM
Xylenes, Total	ND	0.096		mg/Kg	1	7/16/2020 10:49:57 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/16/2020 10:49:57 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/16/2020 1:54:51 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 2

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 4:40:00 PM

Lab ID: 2007769-006

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/16/2020 10:36:31 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/16/2020 10:36:31 AM
Surr: DNOP	115	55.1-146		%Rec	1	7/16/2020 10:36:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2020 11:13:27 AM
Surr: BFB	84.3	66.6-105		%Rec	1	7/16/2020 11:13:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 11:13:27 AM
Toluene	ND	0.049		mg/Kg	1	7/16/2020 11:13:27 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2020 11:13:27 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/16/2020 11:13:27 AM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/16/2020 11:13:27 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/16/2020 2:07:12 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 3

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 4:50:00 PM

Lab ID: 2007769-007

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/16/2020 10:46:24 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/16/2020 10:46:24 AM
Surr: DNOP	127	55.1-146		%Rec	1	7/16/2020 10:46:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2020 11:37:01 AM
Surr: BFB	90.3	66.6-105		%Rec	1	7/16/2020 11:37:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 11:37:01 AM
Toluene	ND	0.048		mg/Kg	1	7/16/2020 11:37:01 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2020 11:37:01 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/16/2020 11:37:01 AM
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	7/16/2020 11:37:01 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	2200	59		mg/Kg	20	7/16/2020 2:19:34 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 4

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 5:00:00 PM

Lab ID: 2007769-008

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/16/2020 10:56:17 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/16/2020 10:56:17 AM
Surr: DNOP	109	55.1-146		%Rec	1	7/16/2020 10:56:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2020 12:00:29 PM
Surr: BFB	87.9	66.6-105		%Rec	1	7/16/2020 12:00:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 12:00:29 PM
Toluene	ND	0.048		mg/Kg	1	7/16/2020 12:00:29 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2020 12:00:29 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/16/2020 12:00:29 PM
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	1	7/16/2020 12:00:29 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	3200	150		mg/Kg	50	7/16/2020 1:59:05 PM

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 5

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 5:10:00 PM

Lab ID: 2007769-009

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/16/2020 11:06:12 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/16/2020 11:06:12 AM
Surr: DNOP	149	55.1-146	S	%Rec	1	7/16/2020 11:06:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2020 12:24:00 PM
Surr: BFB	86.8	66.6-105		%Rec	1	7/16/2020 12:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 12:24:00 PM
Toluene	ND	0.048		mg/Kg	1	7/16/2020 12:24:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2020 12:24:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/16/2020 12:24:00 PM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/16/2020 12:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	160	60		mg/Kg	20	7/16/2020 2:44:14 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 6

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 5:20:00 PM

Lab ID: 2007769-010

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/16/2020 11:16:08 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2020 11:16:08 AM
Surr: DNOP	103	55.1-146		%Rec	1	7/16/2020 11:16:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2020 12:47:37 PM
Surr: BFB	85.3	66.6-105		%Rec	1	7/16/2020 12:47:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 12:47:37 PM
Toluene	ND	0.049		mg/Kg	1	7/16/2020 12:47:37 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2020 12:47:37 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/16/2020 12:47:37 PM
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	7/16/2020 12:47:37 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	830	60		mg/Kg	20	7/16/2020 2:56:35 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 7

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 5:30:00 PM

Lab ID: 2007769-011

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/16/2020 11:26:05 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/16/2020 11:26:05 AM
Surr: DNOP	106	55.1-146		%Rec	1	7/16/2020 11:26:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2020 1:34:35 PM
Surr: BFB	83.6	66.6-105		%Rec	1	7/16/2020 1:34:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 1:34:35 PM
Toluene	ND	0.049		mg/Kg	1	7/16/2020 1:34:35 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2020 1:34:35 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2020 1:34:35 PM
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/16/2020 1:34:35 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	400	60		mg/Kg	20	7/16/2020 3:08:56 AM

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

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	

Analytical Report

Lab Order **2007769**

Date Reported: 7/21/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: Stockpile 8

Project: Serene Sisters 25 Fed 4 H

Collection Date: 7/14/2020 5:40:00 PM

Lab ID: 2007769-012

Matrix: SOIL

Received Date: 7/15/2020 2:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/16/2020 11:36:04 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/16/2020 11:36:04 AM
Surr: DNOP	107	55.1-146		%Rec	1	7/16/2020 11:36:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2020 1:58:08 PM
Surr: BFB	91.5	66.6-105		%Rec	1	7/16/2020 1:58:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/16/2020 1:58:08 PM
Toluene	ND	0.049		mg/Kg	1	7/16/2020 1:58:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2020 1:58:08 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2020 1:58:08 PM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	7/16/2020 1:58:08 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/16/2020 3:21:16 AM

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

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#: 2007769

21-Jul-20

Client: Pima Environmental Services LLC

Project: Serene Sisters 25 Fed 4 H

Sample ID: MB-53741	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 53741	RunNo: 70358								
Prep Date: 7/15/2020	Analysis Date: 7/15/2020	SeqNo: 2446448	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-53741	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 53741	RunNo: 70358								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2446449	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.8	90	110			

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#: 2007769

21-Jul-20

Client: Pima Environmental Services LLC
Project: Serene Sisters 25 Fed 4 H

Sample ID: MB-53747	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53747	RunNo: 70378								
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2446274	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	11		10.00		108	55.1	146			

Sample ID: LCS-53747	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53747	RunNo: 70378								
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2446275	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	70	130			
Surr: DNOP	5.5		5.000		111	55.1	146			

Sample ID: MB-53715	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 53715	RunNo: 70379								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2446278	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.5		10.00		75.5	55.1	146			

Sample ID: LCS-53715	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 53715	RunNo: 70379								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2446279	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.2	55.1	146			

Sample ID: 2007769-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: N. Sidewall Comp	Batch ID: 53747	RunNo: 70378								
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2446284	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.2	46.08	4.649	96.9	47.4	136			
Surr: DNOP	5.3		4.608		115	55.1	146			

Sample ID: 2007769-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: N. Sidewall Comp	Batch ID: 53747	RunNo: 70378								
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2446285	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.6	47.80	4.649	105	47.4	136	10.9	43.4	

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#: 2007769

21-Jul-20

Client: Pima Environmental Services LLC

Project: Serene Sisters 25 Fed 4 H

Sample ID: 2007769-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: N. Sidewall Comp	Batch ID: 53747	RunNo: 70378								
Prep Date: 7/16/2020	Analysis Date: 7/16/2020	SeqNo: 2446285			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		4.780		120	55.1	146	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007769

21-Jul-20

Client: Pima Environmental Services LLC

Project: Serene Sisters 25 Fed 4 H

Sample ID: 2007769-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: N. Sidewall Comp	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447088	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.37	0	94.5	80	120			
Surr: BFB	960		974.7		98.8	66.6	105			

Sample ID: 2007769-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: N. Sidewall Comp	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447089	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.83	0	98.6	80	120	2.01	20	
Surr: BFB	950		953.3		99.3	66.6	105	0	0	

Sample ID: lcs-53739	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447091	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	84.3	72.5	106			
Surr: BFB	1100		1000		108	66.6	105			S

Sample ID: mb-53739	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447093	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	860		1000		85.7	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#: 2007769

21-Jul-20

Client: Pima Environmental Services LLC

Project: Serene Sisters 25 Fed 4 H

Sample ID: LCS-53739	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447128	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.1	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: mb-53739	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447130	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	1.1		1.000		106	80	120			

Sample ID: 2007769-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: S. Sidewall Comp	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447290	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9901	0	116	78.5	119			
Toluene	1.2	0.050	0.9901	0	118	75.7	123			
Ethylbenzene	1.2	0.050	0.9901	0	121	74.3	126			
Xylenes, Total	3.6	0.099	2.970	0	122	72.9	130			
Surr: 4-Bromofluorobenzene	1.1		0.9901		109	80	120			

Sample ID: 2007769-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: S. Sidewall Comp	Batch ID: 53739	RunNo: 70385								
Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447291	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9681	0	112	78.5	119	5.88	20	
Toluene	1.1	0.048	0.9681	0	114	75.7	123	5.14	20	
Ethylbenzene	1.1	0.048	0.9681	0	118	74.3	126	4.77	20	
Xylenes, Total	3.5	0.097	2.904	0	119	72.9	130	4.73	20	
Surr: 4-Bromofluorobenzene	1.1		0.9681		109	80	120	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



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: 2007769 RcptNo: 1

Received By: Cheyenne Cason 7/15/2020 2:50:00 PM

Completed By: Michelle Garcia 7/15/2020 3:00:36 PM

Michelle Garcia

Reviewed By: DAD 7/15/20

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? Yes No
 (Note discrepancies on chain of custody)
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? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *EM 7/15/20*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Yes			
2	3.2	Good	Yes			
3	2.2	Good	Yes			

Chain-of-Custody Record

Client: Pima Environmental

Mailing Address: 1601 N. Turner St 500 Hobbs NM

Phone #: 575-964-7740

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other

EDD (Type)

Turn-Around Time:
 Standard Rush Same day

Project Name: Serene Sisters 25 Fed 4 H

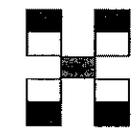
Project #: 20866342

Project Manager: Chris Jones

Sampler: Robert Cooper
 On Ice: Yes No

of Coolers: 3
 Cooler Temp (including CF): see below (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
7-14-20	100	Soil	N. Sidwell Comp	Jar	ICE	20077109 001
	200		S. Sidwell Comp			002
	300		E. Sidwell Comp			003
	400		W. Sidwell Comp			004
	430		Stockpile 1			005
	440		Stockpile 2			006
	450		Stockpile 3			007
	500		Stockpile 4			008
	510		Stockpile 5			009
	520		Stockpile 6			010
	570		Stockpile 7			011
	540		Stockpile 8			012



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request										
BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides
✓	✓									✓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			<i>[Signature]</i>		7/15/20	0800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/15/20	1300	<i>[Signature]</i>	<i>[Signature]</i>		7/15/20	15:50

Remarks: Devin Direct B'11

3.4 + 0.1 = 3.5
 3.1 + 0.1 = 3.2
 2.1 + 0.1 = 2.2

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 notated on the analytical report.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Serene Sisters 25 Fed 4H

Work Order: E302065

Job Number: 21064-0001

Received: 2/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/15/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/15/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Serene Sisters 25 Fed 4H
Workorder: E302065
Date Received: 2/13/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/13/2023 8:15:00AM, under the Project Name: Serene Sisters 25 Fed 4H.

The analytical test results summarized in this report with the Project Name: Serene Sisters 25 Fed 4H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 02/15/23 12:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CNS1 3'	E302065-01A	Soil	02/09/23	02/13/23	Glass Jar, 2 oz.
CNS2 3'	E302065-02A	Soil	02/09/23	02/13/23	Glass Jar, 2 oz.
CNS3 3'	E302065-03A	Soil	02/09/23	02/13/23	Glass Jar, 2 oz.
CNS1 4'	E302065-04A	Soil	02/09/23	02/13/23	Glass Jar, 2 oz.
CNS2 4'	E302065-05A	Soil	02/09/23	02/13/23	Glass Jar, 2 oz.
CNS3 4'	E302065-06A	Soil	02/09/23	02/13/23	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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CNS1 3'
E302065-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: IY		Batch: 2307010
Benzene	ND	0.0250	1	02/13/23	02/14/23	
Ethylbenzene	ND	0.0250	1	02/13/23	02/14/23	
Toluene	ND	0.0250	1	02/13/23	02/14/23	
o-Xylene	ND	0.0250	1	02/13/23	02/14/23	
p,m-Xylene	ND	0.0500	1	02/13/23	02/14/23	
Total Xylenes	ND	0.0250	1	02/13/23	02/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: IY		Batch: 2307010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/13/23	02/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2307004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/23	02/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/23	02/13/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	02/13/23	02/13/23	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: BA		Batch: 2307006
Chloride	ND	20.0	1	02/13/23	02/13/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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CNS2 3'

E302065-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Benzene	ND	0.0250	1	02/13/23	02/14/23	
Ethylbenzene	ND	0.0250	1	02/13/23	02/14/23	
Toluene	ND	0.0250	1	02/13/23	02/14/23	
o-Xylene	ND	0.0250	1	02/13/23	02/14/23	
p,m-Xylene	ND	0.0500	1	02/13/23	02/14/23	
Total Xylenes	ND	0.0250	1	02/13/23	02/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/13/23	02/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.8 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2307004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/23	02/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/23	02/13/23	
<i>Surrogate: n-Nonane</i>		102 %	50-200	02/13/23	02/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2307006
Chloride	ND	20.0	1	02/13/23	02/13/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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CNS3 3'

E302065-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Benzene	ND	0.0250	1	02/13/23	02/14/23	
Ethylbenzene	ND	0.0250	1	02/13/23	02/14/23	
Toluene	ND	0.0250	1	02/13/23	02/14/23	
o-Xylene	ND	0.0250	1	02/13/23	02/14/23	
p,m-Xylene	ND	0.0500	1	02/13/23	02/14/23	
Total Xylenes	ND	0.0250	1	02/13/23	02/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/13/23	02/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2307004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/23	02/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/23	02/13/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/13/23	02/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2307006
Chloride	ND	20.0	1	02/13/23	02/13/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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CNS1 4'
E302065-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Benzene	ND	0.0250	1	02/13/23	02/14/23	
Ethylbenzene	ND	0.0250	1	02/13/23	02/14/23	
Toluene	ND	0.0250	1	02/13/23	02/14/23	
o-Xylene	ND	0.0250	1	02/13/23	02/14/23	
p,m-Xylene	ND	0.0500	1	02/13/23	02/14/23	
Total Xylenes	ND	0.0250	1	02/13/23	02/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/13/23	02/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.2 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2307004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/23	02/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/23	02/13/23	
<i>Surrogate: n-Nonane</i>		103 %	50-200	02/13/23	02/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2307006
Chloride	ND	20.0	1	02/13/23	02/13/23	

Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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CNS2 4'
E302065-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Benzene	ND	0.0250	1	02/13/23	02/14/23	
Ethylbenzene	ND	0.0250	1	02/13/23	02/14/23	
Toluene	ND	0.0250	1	02/13/23	02/14/23	
o-Xylene	ND	0.0250	1	02/13/23	02/14/23	
p,m-Xylene	ND	0.0500	1	02/13/23	02/14/23	
Total Xylenes	ND	0.0250	1	02/13/23	02/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/13/23	02/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		88.4 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2307004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/23	02/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/23	02/13/23	
<i>Surrogate: n-Nonane</i>		100 %	50-200	02/13/23	02/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2307006
Chloride	ND	20.0	1	02/13/23	02/13/23	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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CNS3 4'
E302065-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Benzene	ND	0.0250	1	02/13/23	02/14/23	
Ethylbenzene	ND	0.0250	1	02/13/23	02/14/23	
Toluene	ND	0.0250	1	02/13/23	02/14/23	
o-Xylene	ND	0.0250	1	02/13/23	02/14/23	
p,m-Xylene	ND	0.0500	1	02/13/23	02/14/23	
Total Xylenes	ND	0.0250	1	02/13/23	02/14/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307010
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/13/23	02/14/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.1 %	70-130	02/13/23	02/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307004
Diesel Range Organics (C10-C28)	ND	25.0	1	02/13/23	02/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/13/23	02/13/23	
<i>Surrogate: n-Nonane</i>		104 %	50-200	02/13/23	02/13/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307006
Chloride	ND	20.0	1	02/13/23	02/13/23	



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2307010-BLK1)

Prepared: 02/13/23 Analyzed: 02/13/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.43		8.00		105		70-130		

LCS (2307010-BS1)

Prepared: 02/13/23 Analyzed: 02/13/23

Benzene	5.09	0.0250	5.00		102		70-130		
Ethylbenzene	5.19	0.0250	5.00		104		70-130		
Toluene	5.29	0.0250	5.00		106		70-130		
o-Xylene	5.37	0.0250	5.00		107		70-130		
p,m-Xylene	10.5	0.0500	10.0		105		70-130		
Total Xylenes	15.9	0.0250	15.0		106		70-130		
Surrogate: 4-Bromochlorobenzene-PID	8.60		8.00		108		70-130		

Matrix Spike (2307010-MS1)

Source: E302063-06

Prepared: 02/13/23 Analyzed: 02/13/23

Benzene	4.93	0.0250	5.00	ND	98.6		54-133		
Ethylbenzene	5.02	0.0250	5.00	ND	100		61-133		
Toluene	5.12	0.0250	5.00	ND	102		61-130		
o-Xylene	5.19	0.0250	5.00	ND	104		63-131		
p,m-Xylene	10.2	0.0500	10.0	ND	102		63-131		
Total Xylenes	15.4	0.0250	15.0	ND	102		63-131		
Surrogate: 4-Bromochlorobenzene-PID	8.46		8.00		106		70-130		

Matrix Spike Dup (2307010-MSD1)

Source: E302063-06

Prepared: 02/13/23 Analyzed: 02/13/23

Benzene	5.05	0.0250	5.00	ND	101		54-133	2.44	20
Ethylbenzene	5.15	0.0250	5.00	ND	103		61-133	2.51	20
Toluene	5.25	0.0250	5.00	ND	105		61-130	2.51	20
o-Xylene	5.32	0.0250	5.00	ND	106		63-131	2.51	20
p,m-Xylene	10.4	0.0500	10.0	ND	104		63-131	2.56	20
Total Xylenes	15.8	0.0250	15.0	ND	105		63-131	2.55	20
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105		70-130		



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2307010-BLK1)

Prepared: 02/13/23 Analyzed: 02/13/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

LCS (2307010-BS2)

Prepared: 02/13/23 Analyzed: 02/13/23

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		8.00		86.4	70-130			

Matrix Spike (2307010-MS2)

Source: E302063-06

Prepared: 02/13/23 Analyzed: 02/13/23

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	70-130			

Matrix Spike Dup (2307010-MSD2)

Source: E302063-06

Prepared: 02/13/23 Analyzed: 02/13/23

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.3	70-130	6.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
---	--	--

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2307004-BLK1)

Prepared: 02/13/23 Analyzed: 02/13/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.2		50.0		100	50-200			

LCS (2307004-BS1)

Prepared: 02/13/23 Analyzed: 02/13/23

Diesel Range Organics (C10-C28)	234	25.0	250		93.6	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike (2307004-MS1)

Source: E302065-05

Prepared: 02/13/23 Analyzed: 02/13/23

Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.2	38-132			
Surrogate: n-Nonane	49.8		50.0		99.7	50-200			

Matrix Spike Dup (2307004-MSD1)

Source: E302065-05

Prepared: 02/13/23 Analyzed: 02/13/23

Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	38-132	3.44	20	
Surrogate: n-Nonane	51.2		50.0		102	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Serene Sisters 25 Fed 4H Project Number: 21064-0001 Project Manager: Tom Bynum	Reported: 2/15/2023 12:39:59PM
---	--	--

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2307006-BLK1)

Prepared: 02/13/23 Analyzed: 02/13/23

Chloride ND 20.0

LCS (2307006-BS1)

Prepared: 02/13/23 Analyzed: 02/13/23

Chloride 252 20.0 250 101 90-110

Matrix Spike (2307006-MS1)

Source: E302063-01

Prepared: 02/13/23 Analyzed: 02/13/23

Chloride 436 20.0 250 196 96.3 80-120

Matrix Spike Dup (2307006-MSD1)

Source: E302063-01

Prepared: 02/13/23 Analyzed: 02/13/23

Chloride 413 20.0 250 196 87.0 80-120 5.52 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Serene Sisters 25 Fed 4H	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/15/23 12:39

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Pima Environmental Services	Bill To	Lab Use Only		TAT		EPA Program						
Project: <u>Serene Sisters 25 Fed 4H</u>	Attention: <u>Pima</u>	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Tom Bynum	Address:	<u>E302045</u>	<u>21044-0001</u>				<input checked="" type="checkbox"/>					
Address: 5614 N. Lovington Hwy.	City, State, Zip	Analysis and Method										
City, State, Zip Hobbs, NM, 88240	Phone:	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX			
Phone: 580-748-1613	Email:	State										
Email: tom@pimaoil.com	Pima Project # <u>26-4</u>	<input checked="" type="checkbox"/>						NM	CO	UT	AZ	TX
Report due by:		Remarks										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
0830	2/9/23	S	1	CNS1 3'	1							<input checked="" type="checkbox"/>		
0840				CNS2 3'	2									
0850				CNS3 3'	3									
0910				CNS1 4'	4									
0920				CNS2 4'	5									
0930				CNS3 4'	6									

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) <u>Andy Benavidez</u>	Date <u>2/10/23</u>	Time <u>10:23</u>	Received by: (Signature) <u>Micelle Cuyk</u>	Date <u>2-10-23</u>	Time <u>10:23</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N
Relinquished by: (Signature) <u>Micelle Cuyk</u>	Date <u>2-10-23</u>	Time <u>2200</u>	Received by: (Signature) <u>Carla Chute</u>	Date <u>2/13/23</u>	Time <u>8:15</u>	T1: _____ T2: _____ T3: _____
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 2/13/2023 10:35:19AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	02/13/23 08:15	Work Order ID:	E302065
Phone:	(575) 631-6977	Date Logged In:	02/10/23 15:48	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	02/17/23 07:00 (4 day TAT)		

Chain of Custody (COC)

- 1. Does the sample ID match the COC? Yes
- 2. Does the number of samples per sampling site location match the COC? Yes
- 3. Were samples dropped off by client or carrier? Yes
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Sample Turn Around Time (TAT)

- 6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

- 7. Was a sample cooler received? Yes
- 8. If yes, was cooler received in good condition? Yes
- 9. Was the sample(s) received intact, i.e., not broken? Yes
- 10. Were custody/security seals present? No
- 11. If yes, were custody/security seals intact? NA
- 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 15. Are VOC samples collected in VOA Vials? NA
- 16. Is the head space less than 6-8 mm (pea sized or less)? NA
- 17. Was a trip blank (TB) included for VOC analyses? NA
- 18. Are non-VOC samples collected in the correct containers? Yes
- 19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

- 20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

- 21. Does the COC or field labels indicate the samples were preserved? No
- 22. Are sample(s) correctly preserved? NA
- 24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

- 26. Does the sample have more than one phase, i.e., multiphase? No
- 27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

- 28. Are samples required to get sent to a subcontract laboratory? No
- 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Pima Environmental Services

Appendix F

NMOCD-Approved Remediation Plan

HUNGRY HORSE, LLC

3709 S. Eunice HWY
P.O. Box 1058
Hobbs, NM 88241
Office: 575-393-3386
Fax: 575-391-4585
info@hungry-horse.com

DIRT WORK * ON-SITE REMEDIATION
SOIL TESTING * EXCAVATION * ELECTRICAL

30Jan16

To: Heather Patterson, New Mexico Oil Conservation Division, Dist II
Jim Amos, Bureau of Land Management, Carlsbad District

Reference: Remediation Work Plan

Operator: Devon Energy Production Company

Location: Serene Sisters 25 Fed #4

API: 30-015-38312

Legals: UL. N, Sec. 25, T18S, R31E, Eddy County

GPS (Point of Release): 32.7112 -103.8312

NM OCD: 2RP 3141

Site Information

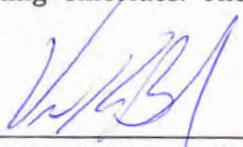
The point of release (POR) is located approximately .9 miles east of Westall Road/CR 249 and 2.5 miles from the south intersection of CR 222 and Westall Road. The POR is 570 yards west/southwest of the well site near a "Y" intersection of lease roads. The area is relatively flat with sparse vegetation and gentle rolling sand dunes. The Eddy County Depth to Groundwater indicates groundwater to be 250'-300'. The New Mexico State Engineer's website list no ground water data for this area.

Work Conducted to Date

The impacted area is approximately 30' x 30'. A delineation was conducted using a hand auger, back-hoe, and due to hard rock, an excavator. One sample point in the middle of the impacted area was selected for soil sampling. All soil samples were filed tested on site for chlorides with selected samples being submitted for lab analysis. (See attached analytical summary and lab results.) Results demonstrate a steady drop in Chlorides from 7'- 21' BGS. TPH nor BTEX were detected in samples.

Proposal

Due to the low Chloride levels between the surface and 3' BGS, I propose to mechanically excavate the impacted area to a depth of 3' BGS and line the excavated area with a synthetic liner and back fill with the excavated material. Thus preventing the downward migration of the existing Chlorides. The impacted area will be seeded using a BLM approved seed mixture.



Vernon K. Black, Hungry Horse, LLC

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB1520255168 OPERATOR Initial Report Final Report

Name of Company Devon Energy Production 6137	Contact Rudy Zuniga
Address 6488 Seven Rivers Hwy Artesia, NM 88220	Telephone No. 575-390-5435
Facility Name Serene Sisters 25 Fed 4	Facility Type Oil
Surface Owner State	Mineral Owner Federal
API No. 30-015-38312	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	25	18S	31E	200	South	1750	West	Eddy

Latitude: N 32°71'10.66" Longitude: W 103°83'11.82"

NATURE OF RELEASE

Type of Release Spill PW	Volume of Release 6 bbls	Volume Recovered 0 bbls
Source of Release Leak in water line	Date and Hour of Occurrence 7/17/2015 @ 10:30 AM	Date and Hour of Discovery 7/17/2015 @ 10:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones OCD Jim Amos BLM	NM OIL CONSERVATION ARTESIA DISTRICT JUL 17 2015 RECEIVED
By Whom? Rudy Zuniga	Date and Hour 7/17/2015 @ 12:26 PM 7/17/2015 @ 12:30 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.*
 On July 17, 2015 at 10:39 AM Rudy Zuniga Devon Energy Production Foreman received a call from Jim Huerta Devon Energy Assistant Production Foreman notifying him that he received a call from Dwayne Concho Lease Operator that there was a leak by the Serene Sisters 25 Fed 4 Battery. Rudy drove to location and found the leak about 1/4 mile from the battery right next to the lease road into the pasture. From what Rudy observed the hole looked like the line had been shot causing the leak of 6 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.*
 Rudy isolated the line so no more fluid could get out. None of the 6 bbls was recovered. This will have to be assessed for clean up

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>Corina Moya</i>	OIL CONSERVATION DIVISION	
Printed Name: Corina Moya	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Admin Support	Approval Date: 7/21/15	Expiration Date: NIA
E-mail Address: corina.moya@dvn.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Attached <input type="checkbox"/>	
Date: 7/20/2015 Phone: 575.746.5559	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 8/22/15 2RP-3141



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 25

Township: 18S

Range: 31E

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.

1/30/16 12:43 PM

Page 1 of 1

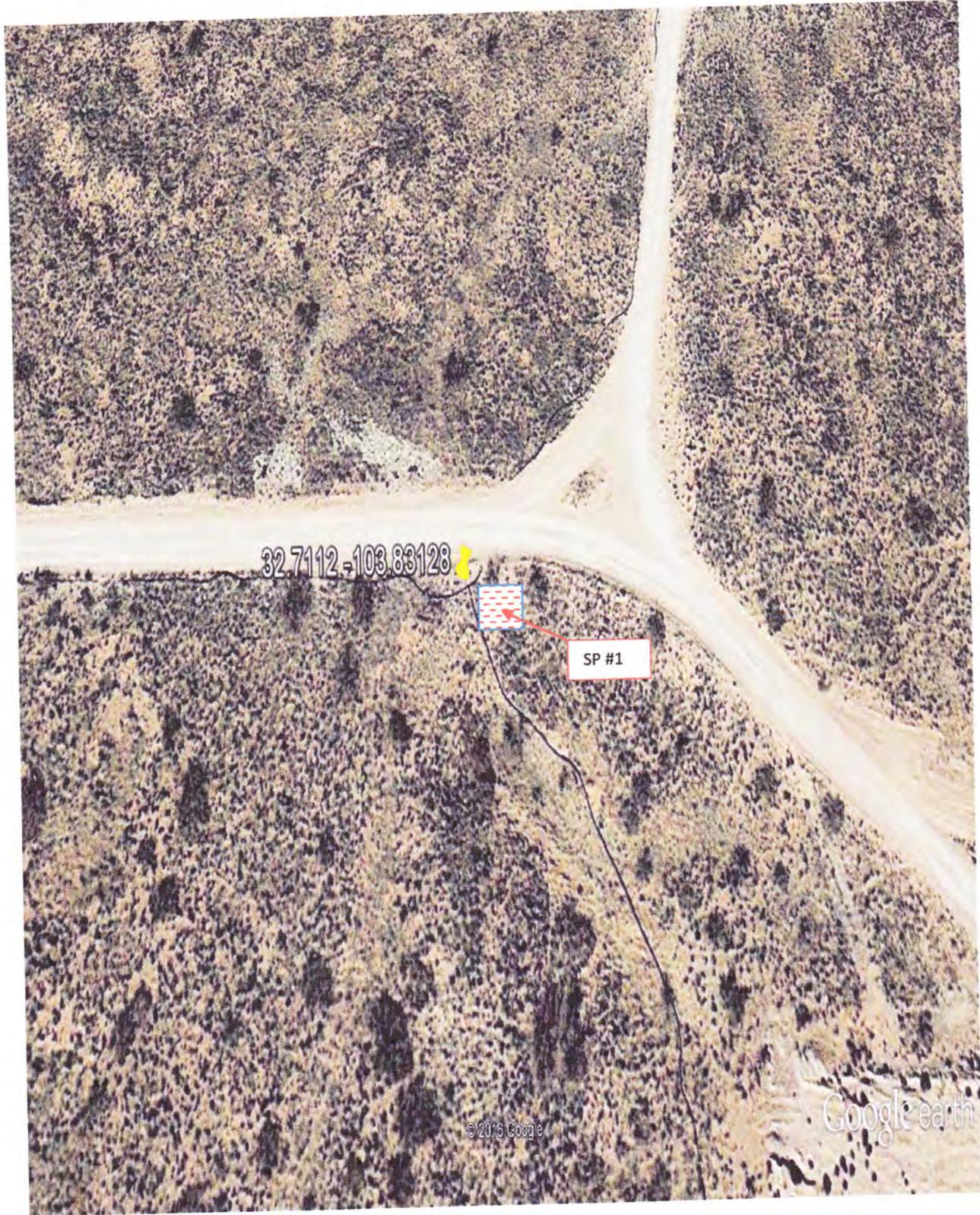
WATER COLUMN/ AVERAGE
DEPTH TO WATER

Devon Energy Production Company-Serene Sisters 25 Fed #4



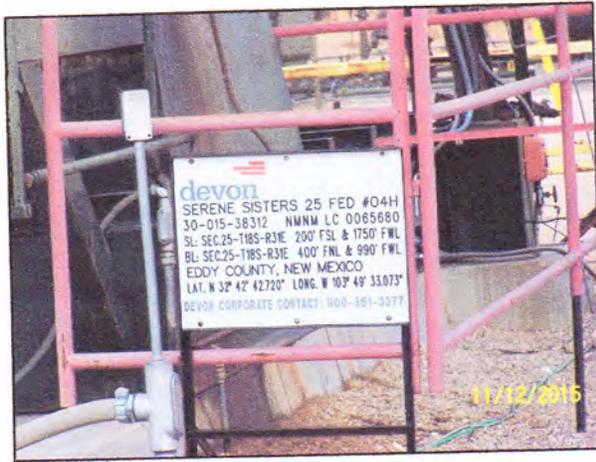
Point of Release is 570 yards west/southwest of well site near lease road intersection.

Devon Energy Production Company-Serene Sisters 25 Fed #4



Impacted area is approximately 30' x 30'.

Devon Energy Production-Serene Sisters 25 Fed #4



Analytical Summary

Operator: Devon Energy Production Company

Location: Serene Sisters 25 Fed #4

Summary of Remediation Sampling Analytical Results as Parts Per Million (PPM)

BTEX

Sample Point	Depth	LAB
SP #1	1' BGS	ND
	5' BGS	ND
	7' BGS	ND

Chlorides

Sample Point	Depth	LAB	Field Test
SP #1	1' BGS	288	285
	3' BGS		237
	5' BGS	9200	4715
	7' BGS	12900	11371
	9' BGS		8374
	11' BGS		6475
	13' BGS	8480	7659
	16' BGS	3480	5970
	17' BGS		1587
	19' BGS	3280	2281
	20' BGS	1390	840
	21' BGS	224	ND

Hand Auger Refusal/Backhoe was brought in

Back-hoe Bucket refusal/Excavator was brought in for completion

TPH

Sample Point	Depth	LAB
SP #1	1' BGS	36
	5' BGS	ND
	7" BGS	ND



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

January 25, 2016

VERNON BLACK
Hungry Horse Environmental
P.O. Box 1058
Hobbs, NM 88240

RE: SERENE SISTERS

Enclosed are the results of analyses for samples received by the laboratory on 01/19/16 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script 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:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 01/19/2016
 Reported: 01/25/2016
 Project Name: SERENE SISTERS
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/19/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Amanda Ponce

Sample ID: SP1 @ 1' (H600111-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2016	ND	1.83	91.4	2.00	10.6		
Toluene*	0.051	0.050	01/21/2016	ND	1.80	89.8	2.00	8.52		
Ethylbenzene*	<0.050	0.050	01/21/2016	ND	1.65	82.3	2.00	7.09		
Total Xylenes*	<0.150	0.150	01/21/2016	ND	5.11	85.1	6.00	6.58		
Total BTEX	<0.300	0.300	01/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	01/20/2016	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/20/2016	ND	191	95.3	200	1.65		
DRO >C10-C28	36.3	10.0	01/20/2016	ND	197	98.7	200	9.16		

Surrogate: 1-Chlorooctane 94.8 % 35-147

Surrogate: 1-Chlorooctadecane 94.2 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 01/19/2016
 Reported: 01/25/2016
 Project Name: SERENE SISTERS
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/19/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Amanda Ponce

Sample ID: SP1 @ 5' (H600111-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2016	ND	1.83	91.4	2.00	10.6	
Toluene*	0.055	0.050	01/21/2016	ND	1.80	89.8	2.00	8.52	
Ethylbenzene*	<0.050	0.050	01/21/2016	ND	1.65	82.3	2.00	7.09	
Total Xylenes*	<0.150	0.150	01/21/2016	ND	5.11	85.1	6.00	6.58	
Total BTEX	<0.300	0.300	01/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	01/20/2016	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/20/2016	ND	191	95.3	200	1.65	
DRO >C10-C28	<10.0	10.0	01/20/2016	ND	197	98.7	200	9.16	

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 01/19/2016
 Reported: 01/25/2016
 Project Name: SERENE SISTERS
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/19/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Amanda Ponce

Sample ID: SP1 @ 7' (H600111-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2016	ND	1.83	91.4	2.00	10.6		
Toluene*	0.054	0.050	01/21/2016	ND	1.80	89.8	2.00	8.52		
Ethylbenzene*	<0.050	0.050	01/21/2016	ND	1.65	82.3	2.00	7.09		
Total Xylenes*	<0.150	0.150	01/21/2016	ND	5.11	85.1	6.00	6.58		
Total BTEX	<0.300	0.300	01/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12900	16.0	01/20/2016	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/20/2016	ND	191	95.3	200	1.65		
DRO >C10-C28	<10.0	10.0	01/20/2016	ND	197	98.7	200	9.16		

Surrogate: 1-Chlorooctane 78.6 % 35-147

Surrogate: 1-Chlorooctadecane 84.3 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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: <u>Hungry Horse, LLC</u> Project Manager: <u>Vernon K. Black</u> Address: <u>PO Box 1058</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88241</u> Phone #: <u>575-631-2253</u> Fax #: <u>575 391-4585</u> Project #: _____ Project Owner: <u>Devon</u> Project Name: <u>Serene Sisters</u> Project Location: <u>Serene Sisters Eddie County</u> Sampler Name: <u>Vernon K Black</u>			BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST															
FOR LAB USE ONLY Lab I.D. <u>H600111</u> Sample I.D. <u>Point of Balance</u>			(GIRAB OR C)OMP # CONTAINERS <u>6</u> <u>6</u> <u>6</u>	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	PRESERV. ACID/BASE ICE / COOL OTHER	SAMPLING Time DATE <u>9:00 1/9/16</u> <u>9:50 /</u> <u>10:00 /</u>	Chlorides BTEX TPH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

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Relinquished By: <u>[Signature]</u> Date: <u>1-19-16</u> Time: <u>2:53 pm</u> Relinquished By: _____ Date: _____ Time: _____	Received By: <u>[Signature]</u> Received By: _____ Date: _____ Time: _____	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:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>21.8°C #54</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>[Signature]</u>

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



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

January 29, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SERENE SISTERS

Enclosed are the results of analyses for samples received by the laboratory on 01/28/16 17:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, prominent initial 'C'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 01/28/2016
 Reported: 01/29/2016
 Project Name: SERENE SISTERS
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/28/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 13' (H600214-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8480	16.0	01/29/2016	ND	416	104	400	3.92		

Sample ID: SP 1 16' (H600214-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	01/29/2016	ND	416	104	400	3.92		

Sample ID: SP 1 19' (H600214-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	01/29/2016	ND	416	104	400	3.92		

Sample ID: SP 1 20' (H600214-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	01/29/2016	ND	416	104	400	3.92		

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 VERNON BLACK
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 01/28/2016
 Reported: 01/29/2016
 Project Name: SERENE SISTERS
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/28/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 21' (H600214-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP							
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0		01/29/2016	ND	416	104	400	3.92	

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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- RPD Relative Percent Difference
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- *** 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

*= Accredited Analyte

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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: <u>Hungry Horse, LLC</u>		BILL TO		ANALYSIS REQUEST																					
Project Manager: <u>Vernon K. Black</u>		P.O. #:																							
Address: <u>PO Box 1058</u>		Company:																							
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88241</u>		Attn:																							
Phone #: <u>575-631-2253</u> Fax #: <u>575-391-4585</u>		Address:																							
Project #: _____ Project Owner: <u>Deanna</u>		City:																							
Project Name: <u>Serene Sisters 25 Fed #4</u>		State: _____ Zip: _____																							
Project Location: <u>Eddie</u>		Phone #:		Chlorides																					
Sampler Name: <u>Vernon K Black</u>		Fax #:																							
FOR LAB USE ONLY		MATRIX												PRESERV.		SAMPLING									
Lab I.D.		Sample I.D.																DATE		TIME					
<u>H600214</u>		<u>SP1 13'</u>												<u>SOIL</u>				<u>1-28-16</u>		<u>1:00</u>					
<u>1</u>		<u>SP1 16'</u>												<u>SOIL</u>						<u>1:10</u>					
<u>2</u>		<u>SP1 19'</u>		<u>SOIL</u>						<u>1:40</u>															
<u>3</u>		<u>SP1 20'</u>		<u>SOIL</u>						<u>2:15</u>															
<u>4</u>		<u>SP1 21'</u>		<u>SOIL</u>						<u>3:00</u>															
<u>5</u>																									
<u>6</u>																									

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Relinquished By: <u>[Signature]</u>	Date: <u>1-28-16</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: _____	Time: <u>5:01</u>	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date: _____	Time: _____	REMARKS:	
Sampler - UPS - Bus - Other:	<u>19.80</u>	Sample Condition	CHECKED BY: <u>[Signature]</u>	
		Cool Intact		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

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From: [Tucker, Shelly](#)
To: [Patterson, Heather, EMNRD](#)
Cc: [Vernon Black](#); jamos@blm.gov; [Bratcher, Mike, EMNRD](#); [Fulks, Brett](#)
Subject: Re: Devon Serene Sisters 25 Fed #1 Work Plan
Date: Thursday, March 03, 2016 9:18:43 AM

BLM concurs with the NMOCD. The area is also cleared for Arch.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Wed, Mar 2, 2016 at 12:17 PM, Patterson, Heather, EMNRD

<Heather.Patterson@state.nm.us> wrote:

RE: Devon Energy * Serene Sisters 25 Fed #4 * 30-015-38312 * 2RP-3141

Vernon,

Your work plan for the above listed release is approved with the following conditions:

The OCD will require a 4 foot excavation. You may use the top 3 feet as backfill as outlined in your work plan, but the zone between 3 and 4 feet will either have to be hauled off, or a confirmation sample should be submitted showing it is clean.

Like approval by BLM is required for federal sites.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

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

-----Original Message-----

From: Vernon Black [mailto:vblack@hungry-horse.com]
Sent: Wednesday, March 02, 2016 8:49 AM
To: Patterson, Heather, EMNRD; Jim Amos (jamos@blm.gov)
Subject: Devon Serene Sisters 25 Fed #1 Work Plan

Good Morning Heather and Jim,

Please see the attached work plan packet for the above referenced Devon location. Your feedback will be greatly appreciated.

Thanks in advance for your help,
Vernon

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

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

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

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

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

CONDITIONS

Action 187099

CONDITIONS

Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204	OGRID: 330220
	Action Number: 187099
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/16/2023