

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

March 20, 2023

NMOCD District 1
1625 N French Dr.
Hobbs, NM, 88240

**RE: Site Assessment, Remediation, and Closure Report
Cottontail 16 State Com #001H
API No. 30-015-42321
GPS: Latitude 32.1230205 Longitude -103.9866708
UL "O", Section 16, Township 25S, Range 29E,
Eddy County, NM
NMOCD Reference No. NAB1604739873**

Raybaw Operating, LLC (Raybaw) has contracted Pima Environmental Services, LLC (Pima) to perform a site assessment, remediation, and prepare this closure report for a crude oil/produced water mixed release that happened at the Cottontail 16 State Com #001H (Cottontail). An initial C-141 was submitted on February 15, 2016, and can be found in Appendix C. This incident was assigned Incident ID NAB1604739873, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Characterization

The Cottontail is located approximately nine (9) miles southeast of Malaga, NM. This spill site is in Unit O, Section 16, Township 25S, Range 29E, Latitude 32.1230205 Longitude -103.9866708, 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 in the Rustler Formation. Siltstone, gypsum, sandstone, and dolomite. The soil in this area is made up of Potter-Simona complex, 5 to 25 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 medium potential for karst geology to be present around the Cottontail (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 60 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 140 feet BGS. The closest waterway to the Cottontail is the Pecos River which is approximately 1.83 miles west of this location. 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

NAB1604739873: On February 11, 2016, A flow line ruptured causing a spill. Lease operator shut off submersible pump and closed valves to prevent further release. The flow line has been repaired. A flow line ruptured causing a release of approximately 48 BBL of produced water and 5 BBL of oil. The spill occurred off pad in a 60' x 15' area on the northeast side of the Cooter 16 State Com 5H well pad. A vacuum truck recovered approximately 45 BBL of produced water and 5 BBL of oil. An environmental agency will be called out for remediation.

Site Assessment

On March 11, 2016, Hungry Horse, LLC submitted a remediation plan for approval to the OCD.

On March 15, 2016, the remediation plan submitted by Hungry Horse, LLC was approved by the OCD with conditions. The NMOCD-approved remediation plan can be found in Appendix F.

On June 30, 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 results of this sampling event can be seen in the following data table. A Site Map can be found in Figure 4.

6-30-20 Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50') | | | | | | | | |
|---|--------------------|---------------------------------------|----------------------|------------------|------------------|------------------|------------------------|-----------------|
| Raybaw Operating - Cottontail 16 State Com 1H | | | | | | | | |
| Date: 6-30-20 | | NM Approved Laboratory Results | | | | | | |
| Sample ID | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
| S-1 | 0-6" | ND | ND | ND | 1300 | 2100 | 3400 | ND |
| | 1-R | ND | ND | ND | 810 | 1700 | 2510 | ND |
| S-2 | 0-6" R | ND | ND | ND | 3600 | 4500 | 8100 | ND |
| S-3 | 0-6" R | ND | ND | ND | ND | ND | ND | ND |
| S-4 | 0-6" | ND | ND | ND | 2300 | 2600 | 4900 | ND |
| | 1-R | ND | ND | ND | 1700 | 2000 | 3700 | ND |
| BG-1 | 0-6" | ND | ND | ND | 500 | 940 | 1440 | 140 |
| BG-2 | 0-6" | ND | ND | ND | ND | ND | ND | ND |
| BG-3 | 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 15' x 15' was marked off running west to east and excavated to a depth of 1' bgs. An additional area was marked off running north to south that joined the existing excavation measuring 30' x 15' and was excavated to a depth of 3' bgs. Five-point composite bottom and sidewall samples were collected to ensure the vertical and horizontal extents of the contamination had been removed. 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 - Cottontail 16 State Com 1H | | | | | | | | |
| 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 |
| S-1 CE | 3' | ND | ND | ND | ND | ND | 0 | ND |
| S-2 CE | 3' | ND | ND | ND | ND | ND | 0 | ND |
| S-3 CN | 3' | ND | ND | ND | 130 | 70 | 200 | ND |
| S-4 CW | 3' | ND | ND | 96 | 4000 | 1800 | 5896 | ND |
| S-5 CW | 3' | ND | ND | ND | 39 | ND | 39 | ND |
| S-6 CS | 3' | ND | ND | ND | 61 | 88 | 149 | ND |
| S-7 CS | 1' | ND | ND | ND | 11 | ND | 11 | ND |
| S-8 CW | 1' | ND | ND | ND | 30 | 52 | 82 | 130 |
| S-9 CN | 1' | ND | ND | ND | ND | ND | ND | 150 |
| S-10 CS | 3' | ND | ND | ND | 340 | 370 | 710 | ND |
| S-11 CN | 3' | ND | ND | ND | 170 | 230 | 400 | ND |

ND – Analyte Not Detected

On July 21, 2020, Pima personnel returned to the site to extend the sidewall of the excavation around sample point S-4 CW. An additional three feet of material was excavated from the sidewall. A confirmation composite sample was collected from the extended wall. The soil sample results from this sampling event can be seen in the following data table. A Confirmation Sample Map can be found in Figure 5.

7-21-20 Confirmation Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50') | | | | | | | | |
|---|-------------|--------------------------------|---------------|-----------|-----------|-----------|-----------------|----------|
| Raybaw Operating - Cottontail 16 State Com 1H | | | | | | | | |
| Date: 7-21-20 | | NM Approved Laboratory Results | | | | | | |
| Sample ID | Depth (BGS) | BTEX mg/kg | Benzene mg/kg | GRO mg/kg | DRO mg/kg | MRO mg/kg | Total TPH mg/kg | Cl mg/kg |
| S-4 CW | 3' | ND | ND | ND | ND | ND | 0 | ND |

ND – Analyte Not Detected

On March 6, 2023, Pima personnel returned to the site to excavate the areas around sample points S-3 CN, S-6 CS, S-10 CS, and S-11 CN. We excavated at 1' increments down to a depth of 4', collecting samples from every foot starting at 2' bgs. Each sample taken was a 5-point composite representing no more than 200 square feet. Composite sidewalls were taken from each wall of the excavation. On March 9, 2023, after sending a 48-hour notification, official confirmation samples were obtained. The soil sample results from this sampling event can be seen in the following data table. A New Excavation Map can be found in Figure 6.

3-9-23 Confirmation Soil Sample Results

| NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50') | | | | | | | | |
|---|-------------|--------------------------------|---------------|-----------|-----------|-----------|-----------------|----------|
| Raybaw Operating - Cottontail 16 State Com 1H | | | | | | | | |
| Date: 3-9-23 | | 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 |
| CS-1 2' | 2' | ND | ND | ND | ND | ND | 0 | ND |
| CS-1 3' | 3' | ND | ND | ND | ND | ND | 0 | ND |
| CS-1 4' | 4' | ND | ND | ND | ND | ND | 0 | ND |
| CS-2 2' | 2' | ND | ND | ND | ND | ND | 0 | ND |
| CS-2 3' | 3' | ND | ND | ND | ND | ND | 0 | ND |
| CS-2 4' | 4' | ND | ND | ND | ND | ND | 0 | ND |
| CSW-1 | 4' | ND | ND | ND | ND | ND | 0 | ND |
| CSW-2 | 4' | ND | ND | ND | ND | ND | 0 | ND |
| CSW-3 | 4' | ND | ND | ND | ND | ND | 0 | ND |
| CSW-4 | 4' | ND | ND | ND | ND | ND | 0 | 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, NAB1604739873 be closed. Raybaw has complied with the applicable closure requirements.

Approximately 60 cubic yards of soil was removed and transported to Lea Land, LLC, an NMOCD-approved lined disposal facility, and clean topsoil material was brought back to backfill the excavation. The site was machine compacted and recontoured to match the surrounding terrain.

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- New Excavation Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form & 48-hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports
- Appendix F – NMOCD-Approved Remediation Plan



Pima Environmental Services

Figures:

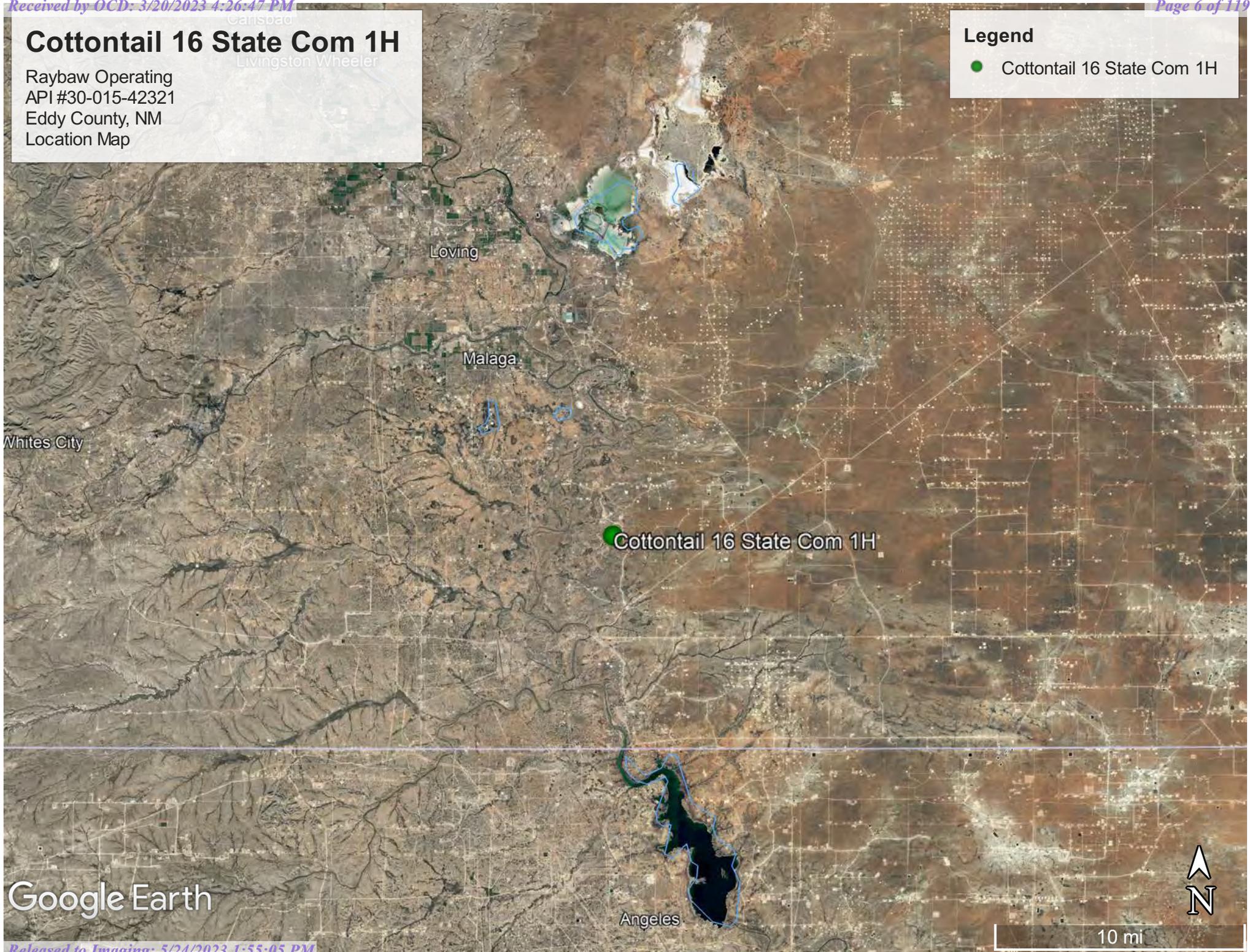
- 1 - Location Map
- 2 - Topographic Map
- 3 - Karst Map
- 4 - Site Map
- 5 - Confirmation Sample Map
- 6 - New Excavation Map

Cottontail 16 State Com 1H

Raybaw Operating
API #30-015-42321
Eddy County, NM
Location Map

Legend

- Cottontail 16 State Com 1H



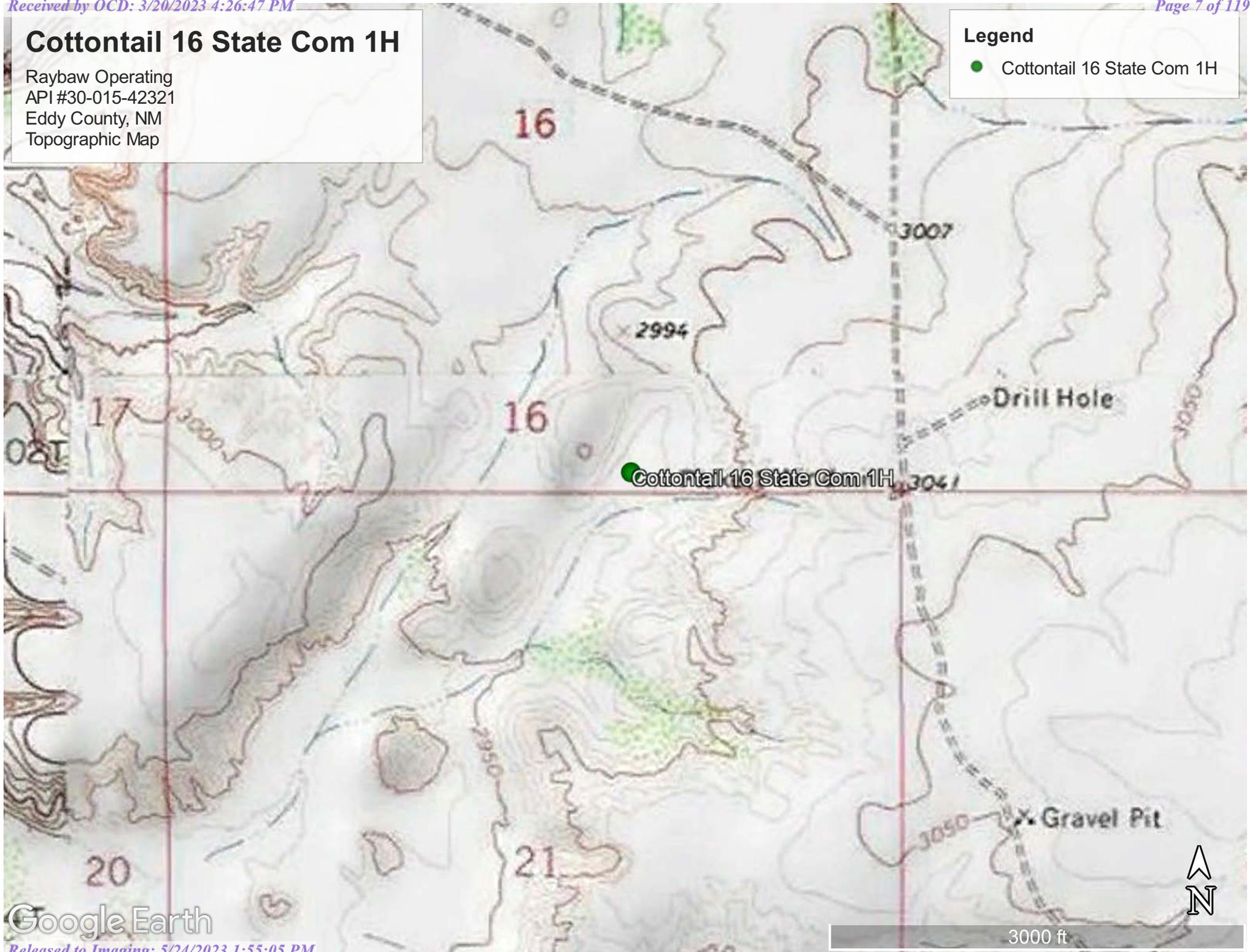
Google Earth

Cottontail 16 State Com 1H

Raybaw Operating
API #30-015-42321
Eddy County, NM
Topographic Map

Legend

- Cottontail 16 State Com 1H



Cottontail 16 State Com 1H

Raybaw Operating
API #30-015-42321
Eddy County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

Pecos River

Cottontail 16 State Com 1H

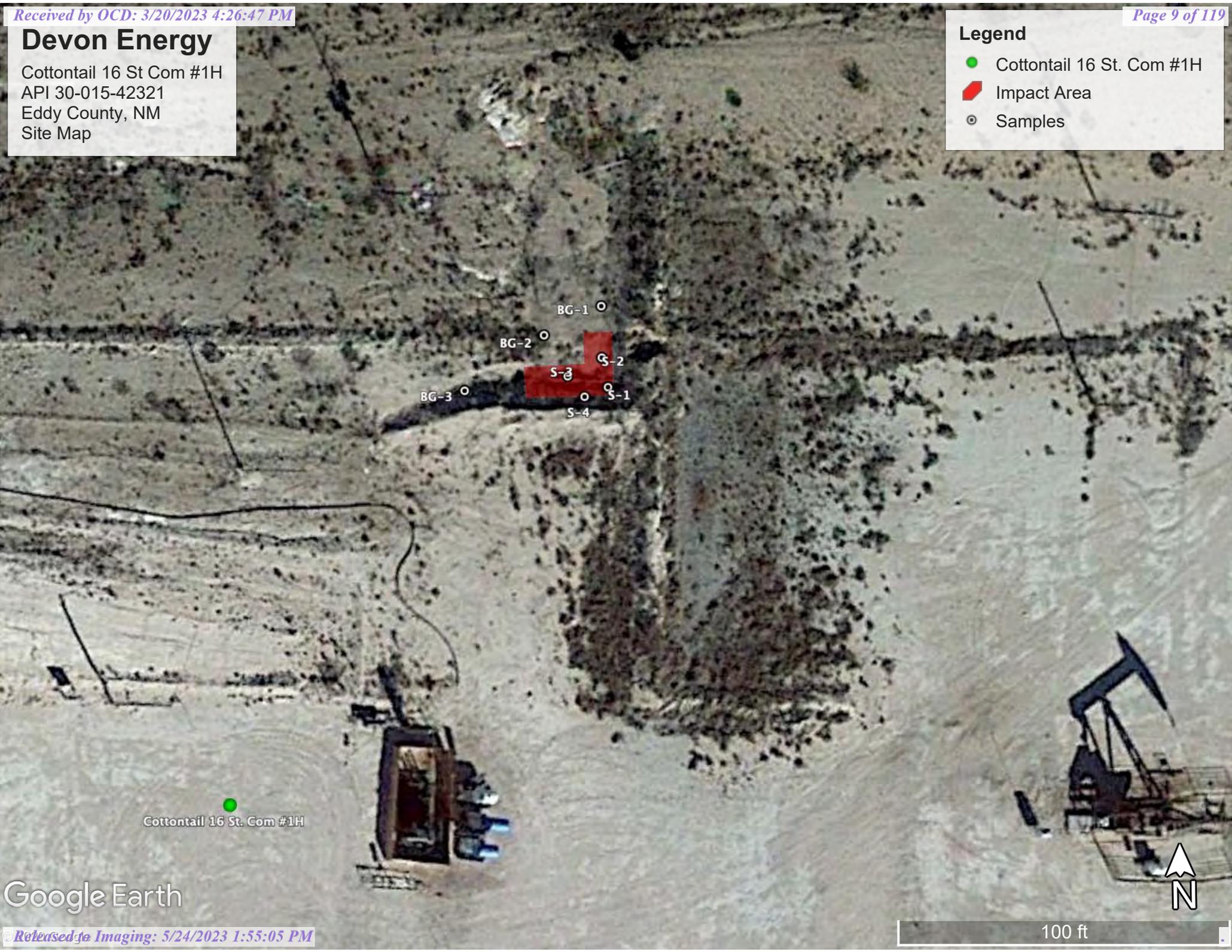


Devon Energy

Cottontail 16 St Com #1H
API 30-015-42321
Eddy County, NM
Site Map

Legend

- Cottontail 16 St. Com #1H
- Impact Area
- Samples



Cottontail 16 St. Com #1H

Google Earth

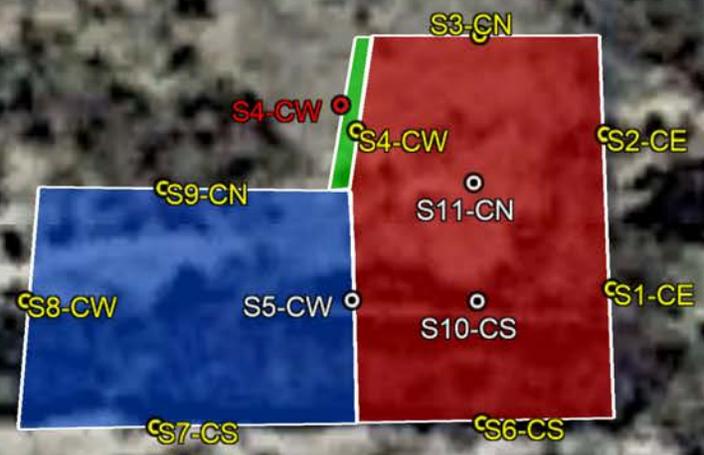
Cottontail 16 State Com 1H

Raybaw Operating
API #30-015-42321
Eddy County, NM
Confirmation Sample Map

Legend

-  1' Excavation
-  3' Excavation
-  Composite Base Samples
-  Composite Sidewall+Base Samples
-  Extended Sidewall

 32.124092, -103.986927



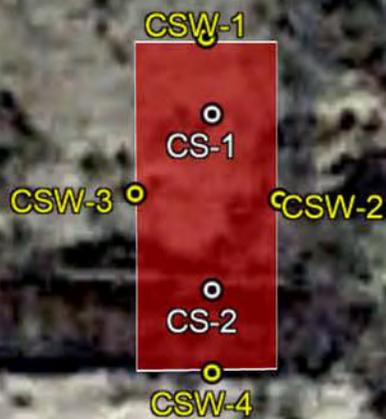
Cottontail 16 State Com 1H

Raybaw Operating
API #30-015-42321
Eddy County, NM
nAB1604739873
New Excavation Map

Legend

- Confirmation Base Samples
- Confirmation Sidewall Samples
- New Excavation-400sqft

32.124092, -103.986927





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 |
|------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|-----------|------------|--------------|
| C_02371 | | C | ED | 2 | 3 | 15 | 25S | 29E | | 596741 | 3555106* | 1266 | 200 | 60 | 140 |
| C_02680 | | CUB | ED | 2 | 3 | 15 | 25S | 29E | | 596741 | 3555106* | 1266 | 200 | | |
| C_04503 POD1 | | CUB | ED | 4 | 3 | 3 | 09 | 25S | 29E | 594884 | 3556142 | 1650 | | | |
| C_02518 | | C | ED | 3 | 4 | 08 | 25S | 29E | | 593895 | 3556300* | 2354 | 462 | | |

Average Depth to Water: **60 feet**

Minimum Depth: **60 feet**

Maximum Depth: **60 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 595564.11

Northing (Y): 3554639.19

Radius: 3000

*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.

2/3/23 10:02 AM

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 =

- 320719103584601

Minimum number of levels = 1

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

USGS 320719103584601 25S.29E.16.44444

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°07'19", Longitude 103°58'46" NAD27

Land-surface elevation 3,042 feet above NAVD88

The depth of the well is 200 feet below land surface.

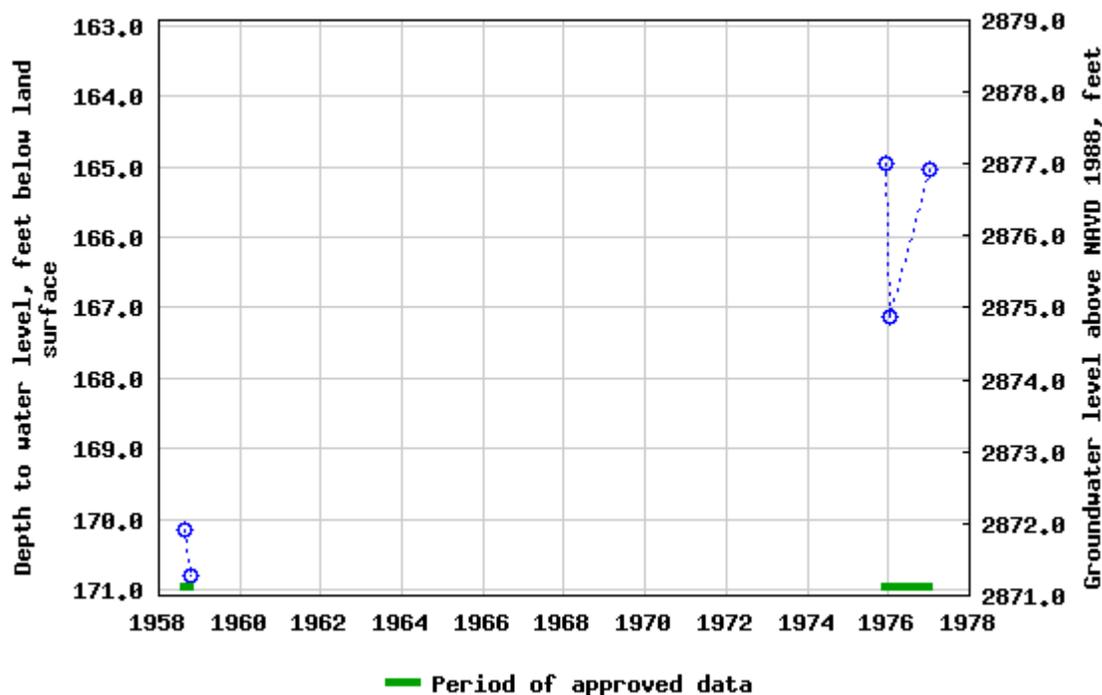
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

USGS 320719103584601 25S.29E.16.44444



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](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
- [News](#)

[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: 2023-01-31 14:26:23 EST

0.59 0.5 nadww02

Cottontail 16 State Com 1H

Raybaw Operating
API #30-015-42321
Eddy County, NM
Surface Water Map

Legend

-  1.83 Miles
-  Pecos River



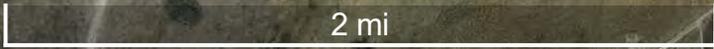
Pecos River

Pecos River

Cottontail 16 State Com 1H

Pecos River

Google Earth





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

PS—Potter-Simona complex, 5 to 25 percent slopes

Map Unit Setting

National map unit symbol: 1w57

Elevation: 2,750 to 5,000 feet

Mean annual precipitation: 8 to 16 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Potter and similar soils: 80 percent

Simona and similar soils: 15 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Potter

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Alluvium

Typical profile

H1 - 0 to 10 inches: gravelly loam

H2 - 10 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 25 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.2 inches)

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Description of Simona

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 11 inches: gravelly fine sandy loam
H2 - 11 to 19 inches: gravelly fine sandy loam
H3 - 19 to 60 inches: cemented material

Properties and qualities

Slope: 5 to 10 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 3 percent
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Rock outcrop

Percent of map unit: 2 percent

Map Unit Description: Potter-Simona complex, 5 to 25 percent slopes---Eddy Area, New Mexico

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°59'32"W 32°7'41"N



Legend

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

| | | |
|----------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | 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 <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |

| | | |
|-------------|--|--|
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| | | Area of Undetermined Flood Hazard <i>Zone D</i> |

| | | |
|--------------------|--|----------------------------------|
| GENERAL STRUCTURES | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |

| | | |
|----------------|--|---|
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance |
| | | 17.5 Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| OTHER FEATURES | | 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.

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 2/3/2023 at 12:09 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 Map



February 3, 2023

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | 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

48-Hour Notification

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

FEB 15 2016

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

| | |
|--|--|
| Name of Company <i>Devon Energy Production</i> <i>0137</i> | Contact Leonard Aguilar Production Assistant Foreman |
| Address 6488 Seven Rivers Hwy Artesia, NM 88220 | Telephone No. 575.513.1930 |
| Facility Name Cottontail 16 State Com 1H | Facility Type Oil |

| | | |
|---------------------|---------------------|----------------------|
| Surface Owner State | Mineral Owner State | API No. 30-015-42321 |
|---------------------|---------------------|----------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| O | 16 | 25S | 29E | 150 | FSL | 1950 | FEL | Eddy |

Latitude: 32.1230205 Longitude: -103.9866708

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release Spill Produced water & oil | Volume of Release 48 BBL Produced water 5 BBL oil | Volume Recovered 45 BBL produced water 5 BBL oil |
| Source of Release Flow line ruptured | Date and Hour of Occurrence 2/11/16 @ 2:30 pm | Date and Hour of Discovery 2/11/16 @ 2:30 pm |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher -OCD | |
| By Whom? Leonard Aguilar Production Assistant Foreman | Date and Hour 2/11/16 @ 7:58 pm | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. N/A | |

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*

A flow line ruptured causing a spill. Lease operator shut off electronic submersible pump and closed valves to prevent further release. The flow line has been repaired.

Describe Area Affected and Cleanup Action Taken.*

A flow line ruptured causing a release of approximately 48 BBL of produced water and 5 BBL of oil. The spill occurred off pad in a 60' x 15' area on the northeast side of the Cooter 16 State Com 5H well pad. A vacuum truck recovered approximately 45 BBL of produced water and 5 BBL of oil. An environmental agency will be called out for remediation.

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>Jeanette Barron</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Jeanette Barron | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Field Admin Support | Approval Date: <i>2/16/16</i> | Expiration Date: <i>N/A</i> |
| E-mail Address: Jeanette.barron@dvn.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: <i>2/15/16</i> Phone: 575.748.1813 | | |

* Attach Additional Sheets If Necessary

2RP-355A

Form C-141

State of New Mexico
Oil Conservation Division

Page 3

| | |
|----------------|---------------|
| Incident ID | NAB1604739873 |
| 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? | <u><50 (ft. bgs)</u> |
| 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.

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 MAC, 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 | NAB1604739873 |
| 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: 3/20/2023

email: nwinn@sbcglobal.net Telephone: 281-793-5452

OCD Only

Received by: Jocelyn Harimon Date: 03/21/2023

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

| | |
|----------------|---------------|
| Incident ID | NAB1604739873 |
| 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 OCD 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: 3/20/2023
 email: nwinn@sbcglobal.net Telephone: 281-793-5452

OCD Only

Received by: Jocelyn Harimon Date: 03/21/2023

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: 5/24/2023
 Printed Name: Brittany Hall Title: Environmental Specialist

From: tom@pimaoil.com
To: ocdonline@state.nm.us
Cc: "Gio PimaOil"
Subject: 48-Hour Notification - nAB1604739873
Date: Tuesday, March 7, 2023 6:51:44 AM

Good morning,
Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Cottontail 16 State Com 1H for incident ID nAB1604739873. Pima personnel are scheduled to be on site for this sampling event at approximately 7:00 a.m. Thursday, March 9th, 2023. Thank you for your time, have a great day.

THANK YOU,

Tom Bynum

Cell – 580-748-1613

Office – 575-964-7740



Pima Environmental Services, LLC.

5614 N Lovington Hwy.

Hobbs, NM, 88240



Pima Environmental Services

Appendix D

Photographic Documentation









+32.124136, -103.986605
Raybaw
Cottontail 16 St Com 1H
Pre Treatment



+32.124033, -103.986968
Eddy County
Raybaw
Cottontail 16 St Com 1H
Pre Treatment



+32.124076, -103.986731
Raybaw
Cottontail 16 St Com 1H
Dig n Haul
1 Foot



+32.123999, -103.986760
Raybaw
Cottontail 16 St Com 1H
Dig n Haul
2 Foot



+32.124068,-103.986843
 Raybaw
 Cottontail 16 St Com 1H
 Dig n Haul
 Post



+32.124068,-103.986843
 Raybaw
 Cottontail 16 St Com 1H
 Dig n Haul
 Post



+32.124068,-103.986843
 Raybaw
 Cottontail 16 St Com 1H
 Dig n Haul
 Post



+32.124068,-103.986843
 Raybaw
 Cottontail 16 St Com 1H
 Dig n Haul
 Post



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 07, 2020

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

RE: Cottontail 16 St. Com 1 H

OrderNo.: 2007086

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/2/2020 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 light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 0-6

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 12:00:00 PM

Lab ID: 2007086-001

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 1300 | 93 | | mg/Kg | 10 | 7/2/2020 10:11:22 AM |
| Motor Oil Range Organics (MRO) | 2100 | 460 | | mg/Kg | 10 | 7/2/2020 10:11:22 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 7/2/2020 10:11:22 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 61 | | mg/Kg | 20 | 7/2/2020 10:47:02 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 7/2/2020 12:09:19 PM |
| Toluene | ND | 0.041 | | mg/Kg | 1 | 7/2/2020 12:09:19 PM |
| Ethylbenzene | ND | 0.041 | | mg/Kg | 1 | 7/2/2020 12:09:19 PM |
| Xylenes, Total | ND | 0.082 | | mg/Kg | 1 | 7/2/2020 12:09:19 PM |
| Surr: 1,2-Dichloroethane-d4 | 100 | 70-130 | | %Rec | 1 | 7/2/2020 12:09:19 PM |
| Surr: 4-Bromofluorobenzene | 87.2 | 70-130 | | %Rec | 1 | 7/2/2020 12:09:19 PM |
| Surr: Dibromofluoromethane | 100 | 70-130 | | %Rec | 1 | 7/2/2020 12:09:19 PM |
| Surr: Toluene-d8 | 103 | 70-130 | | %Rec | 1 | 7/2/2020 12:09:19 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.1 | | mg/Kg | 1 | 7/2/2020 12:09:19 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 7/2/2020 12:09:19 PM |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-1 1-R

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 12:05:00 PM

Lab ID: 2007086-002

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 810 | 190 | | mg/Kg | 20 | 7/2/2020 10:24:13 AM |
| Motor Oil Range Organics (MRO) | 1700 | 930 | | mg/Kg | 20 | 7/2/2020 10:24:13 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 20 | 7/2/2020 10:24:13 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/2/2020 10:59:26 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/2/2020 12:39:09 PM |
| Toluene | ND | 0.039 | | mg/Kg | 1 | 7/2/2020 12:39:09 PM |
| Ethylbenzene | ND | 0.039 | | mg/Kg | 1 | 7/2/2020 12:39:09 PM |
| Xylenes, Total | ND | 0.078 | | mg/Kg | 1 | 7/2/2020 12:39:09 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 70-130 | | %Rec | 1 | 7/2/2020 12:39:09 PM |
| Surr: 4-Bromofluorobenzene | 89.1 | 70-130 | | %Rec | 1 | 7/2/2020 12:39:09 PM |
| Surr: Dibromofluoromethane | 104 | 70-130 | | %Rec | 1 | 7/2/2020 12:39:09 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 7/2/2020 12:39:09 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 3.9 | | mg/Kg | 1 | 7/2/2020 12:39:09 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 7/2/2020 12:39:09 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-2 0-6-R

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 12:15:00 PM

Lab ID: 2007086-003

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 3600 | 200 | | mg/Kg | 20 | 7/2/2020 10:31:41 AM |
| Motor Oil Range Organics (MRO) | 4500 | 990 | | mg/Kg | 20 | 7/2/2020 10:31:41 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 20 | 7/2/2020 10:31:41 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/2/2020 11:11:50 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 7/2/2020 1:09:06 PM |
| Toluene | ND | 0.040 | | mg/Kg | 1 | 7/2/2020 1:09:06 PM |
| Ethylbenzene | ND | 0.040 | | mg/Kg | 1 | 7/2/2020 1:09:06 PM |
| Xylenes, Total | ND | 0.079 | | mg/Kg | 1 | 7/2/2020 1:09:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | | %Rec | 1 | 7/2/2020 1:09:06 PM |
| Surr: 4-Bromofluorobenzene | 91.4 | 70-130 | | %Rec | 1 | 7/2/2020 1:09:06 PM |
| Surr: Dibromofluoromethane | 97.1 | 70-130 | | %Rec | 1 | 7/2/2020 1:09:06 PM |
| Surr: Toluene-d8 | 98.6 | 70-130 | | %Rec | 1 | 7/2/2020 1:09:06 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.0 | | mg/Kg | 1 | 7/2/2020 1:09:06 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 7/2/2020 1:09:06 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-3 0-6-R

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 12:25:00 PM

Lab ID: 2007086-004

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 7/2/2020 10:07:21 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/2/2020 10:07:21 AM |
| Surr: DNOP | 93.1 | 55.1-146 | | %Rec | 1 | 7/2/2020 10:07:21 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/2/2020 11:24:15 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 7/2/2020 1:39:10 PM |
| Toluene | ND | 0.040 | | mg/Kg | 1 | 7/2/2020 1:39:10 PM |
| Ethylbenzene | ND | 0.040 | | mg/Kg | 1 | 7/2/2020 1:39:10 PM |
| Xylenes, Total | ND | 0.080 | | mg/Kg | 1 | 7/2/2020 1:39:10 PM |
| Surr: 1,2-Dichloroethane-d4 | 98.2 | 70-130 | | %Rec | 1 | 7/2/2020 1:39:10 PM |
| Surr: 4-Bromofluorobenzene | 87.0 | 70-130 | | %Rec | 1 | 7/2/2020 1:39:10 PM |
| Surr: Dibromofluoromethane | 98.7 | 70-130 | | %Rec | 1 | 7/2/2020 1:39:10 PM |
| Surr: Toluene-d8 | 105 | 70-130 | | %Rec | 1 | 7/2/2020 1:39:10 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.0 | | mg/Kg | 1 | 7/2/2020 1:39:10 PM |
| Surr: BFB | 99.0 | 70-130 | | %Rec | 1 | 7/2/2020 1:39:10 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 0-6

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 12:35:00 PM

Lab ID: 2007086-005

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 2300 | 180 | | mg/Kg | 20 | 7/2/2020 11:19:56 AM |
| Motor Oil Range Organics (MRO) | 2600 | 920 | | mg/Kg | 20 | 7/2/2020 11:19:56 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 20 | 7/2/2020 11:19:56 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/2/2020 11:36:40 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/2/2020 2:09:20 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/2/2020 2:09:20 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/2/2020 2:09:20 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/2/2020 2:09:20 PM |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | | %Rec | 1 | 7/2/2020 2:09:20 PM |
| Surr: 4-Bromofluorobenzene | 89.0 | 70-130 | | %Rec | 1 | 7/2/2020 2:09:20 PM |
| Surr: Dibromofluoromethane | 99.5 | 70-130 | | %Rec | 1 | 7/2/2020 2:09:20 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 7/2/2020 2:09:20 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/2/2020 2:09:20 PM |
| Surr: BFB | 99.6 | 70-130 | | %Rec | 1 | 7/2/2020 2:09:20 PM |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S-4 1-R

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 12:45:00 PM

Lab ID: 2007086-006

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 1700 | 190 | | mg/Kg | 20 | 7/2/2020 11:43:59 AM |
| Motor Oil Range Organics (MRO) | 2000 | 940 | | mg/Kg | 20 | 7/2/2020 11:43:59 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 20 | 7/2/2020 11:43:59 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/2/2020 11:49:05 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: JMR |
| Benzene | ND | 0.021 | | mg/Kg | 1 | 7/2/2020 12:32:28 PM |
| Toluene | ND | 0.042 | | mg/Kg | 1 | 7/2/2020 12:32:28 PM |
| Ethylbenzene | ND | 0.042 | | mg/Kg | 1 | 7/2/2020 12:32:28 PM |
| Xylenes, Total | ND | 0.085 | | mg/Kg | 1 | 7/2/2020 12:32:28 PM |
| Surr: 1,2-Dichloroethane-d4 | 102 | 70-130 | | %Rec | 1 | 7/2/2020 12:32:28 PM |
| Surr: 4-Bromofluorobenzene | 93.6 | 70-130 | | %Rec | 1 | 7/2/2020 12:32:28 PM |
| Surr: Dibromofluoromethane | 104 | 70-130 | | %Rec | 1 | 7/2/2020 12:32:28 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 7/2/2020 12:32:28 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.2 | | mg/Kg | 1 | 7/2/2020 12:32:28 PM |
| Surr: BFB | 98.2 | 70-130 | | %Rec | 1 | 7/2/2020 12:32:28 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-1 0

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 12:55:00 PM

Lab ID: 2007086-007

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 500 | 100 | | mg/Kg | 10 | 7/2/2020 11:28:12 AM |
| Motor Oil Range Organics (MRO) | 940 | 500 | | mg/Kg | 10 | 7/2/2020 11:28:12 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 7/2/2020 11:28:12 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | 140 | 60 | | mg/Kg | 20 | 7/2/2020 12:01:30 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: JMR |
| Benzene | ND | 0.021 | | mg/Kg | 1 | 7/2/2020 1:01:06 PM |
| Toluene | ND | 0.042 | | mg/Kg | 1 | 7/2/2020 1:01:06 PM |
| Ethylbenzene | ND | 0.042 | | mg/Kg | 1 | 7/2/2020 1:01:06 PM |
| Xylenes, Total | ND | 0.084 | | mg/Kg | 1 | 7/2/2020 1:01:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | | %Rec | 1 | 7/2/2020 1:01:06 PM |
| Surr: 4-Bromofluorobenzene | 94.0 | 70-130 | | %Rec | 1 | 7/2/2020 1:01:06 PM |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %Rec | 1 | 7/2/2020 1:01:06 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 7/2/2020 1:01:06 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 4.2 | | mg/Kg | 1 | 7/2/2020 1:01:06 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 7/2/2020 1:01:06 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-2 0

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 1:05:00 PM

Lab ID: 2007086-008

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 9.1 | | mg/Kg | 1 | 7/2/2020 10:13:31 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/2/2020 10:13:31 AM |
| Surr: DNOP | 97.4 | 55.1-146 | | %Rec | 1 | 7/2/2020 10:13:31 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/2/2020 12:13:54 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: JMR |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/2/2020 1:29:46 PM |
| Toluene | ND | 0.038 | | mg/Kg | 1 | 7/2/2020 1:29:46 PM |
| Ethylbenzene | ND | 0.038 | | mg/Kg | 1 | 7/2/2020 1:29:46 PM |
| Xylenes, Total | ND | 0.076 | | mg/Kg | 1 | 7/2/2020 1:29:46 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | | %Rec | 1 | 7/2/2020 1:29:46 PM |
| Surr: 4-Bromofluorobenzene | 92.4 | 70-130 | | %Rec | 1 | 7/2/2020 1:29:46 PM |
| Surr: Dibromofluoromethane | 110 | 70-130 | | %Rec | 1 | 7/2/2020 1:29:46 PM |
| Surr: Toluene-d8 | 100 | 70-130 | | %Rec | 1 | 7/2/2020 1:29:46 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 3.8 | | mg/Kg | 1 | 7/2/2020 1:29:46 PM |
| Surr: BFB | 99.4 | 70-130 | | %Rec | 1 | 7/2/2020 1:29:46 PM |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | 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 **2007086**

Date Reported: **7/7/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: BG-3 0

Project: Cottontail 16 St. Com 1 H

Collection Date: 6/30/2020 1:15:00 PM

Lab ID: 2007086-009

Matrix: MEOH (SOIL)

Received Date: 7/2/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/2/2020 10:37:29 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/2/2020 10:37:29 AM |
| Surr: DNOP | 98.3 | 55.1-146 | | %Rec | 1 | 7/2/2020 10:37:29 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: MRA |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/2/2020 12:51:07 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: JMR |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/2/2020 1:58:32 PM |
| Toluene | ND | 0.038 | | mg/Kg | 1 | 7/2/2020 1:58:32 PM |
| Ethylbenzene | ND | 0.038 | | mg/Kg | 1 | 7/2/2020 1:58:32 PM |
| Xylenes, Total | ND | 0.076 | | mg/Kg | 1 | 7/2/2020 1:58:32 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | | %Rec | 1 | 7/2/2020 1:58:32 PM |
| Surr: 4-Bromofluorobenzene | 93.4 | 70-130 | | %Rec | 1 | 7/2/2020 1:58:32 PM |
| Surr: Dibromofluoromethane | 112 | 70-130 | | %Rec | 1 | 7/2/2020 1:58:32 PM |
| Surr: Toluene-d8 | 103 | 70-130 | | %Rec | 1 | 7/2/2020 1:58:32 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: JMR |
| Gasoline Range Organics (GRO) | ND | 3.8 | | mg/Kg | 1 | 7/2/2020 1:58:32 PM |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 7/2/2020 1:58:32 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 | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007086

07-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St. Com 1 H

| Sample ID: MB-53477 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53477 | RunNo: 70082 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/2/2020 | SeqNo: 2436779 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-53477 | SampType: ics | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53477 | RunNo: 70082 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/2/2020 | SeqNo: 2436780 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.8 | 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#: 2007086

07-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St. Com 1 H

| Sample ID: MB-53470 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53470 | RunNo: 70071 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/2/2020 | SeqNo: 2434218 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 117 | 55.1 | 146 | | | |

| Sample ID: LCS-53470 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53470 | RunNo: 70070 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/2/2020 | SeqNo: 2434652 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 10 | 50.00 | 0 | 97.1 | 70 | 130 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 94.1 | 55.1 | 146 | | | |

| Sample ID: 2007086-009AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BG-3 0 | Batch ID: 53470 | RunNo: 70070 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/2/2020 | SeqNo: 2435075 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 9.6 | 47.98 | 0 | 101 | 47.4 | 136 | | | |
| Surr: DNOP | 4.2 | | 4.798 | | 88.1 | 55.1 | 146 | | | |

| Sample ID: 2007086-009AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BG-3 0 | Batch ID: 53470 | RunNo: 70070 | | | | | | | | |
| Prep Date: 7/2/2020 | Analysis Date: 7/2/2020 | SeqNo: 2435077 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 9.8 | 49.02 | 0 | 101 | 47.4 | 136 | 1.93 | 43.4 | |
| Surr: DNOP | 4.4 | | 4.902 | | 89.3 | 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#: 2007086

07-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St. Com 1 H

| Sample ID: mb1 | SampType: MBLK | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|-----------------------------|--------------------------------|-------|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: R70085 | | RunNo: 70085 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435061 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.47 | | 0.5000 | | 94.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.54 | | 0.5000 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.5000 | | 101 | 70 | 130 | | | |

| Sample ID: 100ng lcs | SampType: LCS | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|-----------------------------|--------------------------------|-------|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: R70085 | | RunNo: 70085 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435062 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.2 | 0.025 | 1.000 | 0 | 116 | 70 | 130 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 104 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.52 | | 0.5000 | | 103 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.49 | | 0.5000 | | 98.0 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.49 | | 0.5000 | | 97.8 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.49 | | 0.5000 | | 98.8 | 70 | 130 | | | |

| Sample ID: 100ng sl lcs4 | SampType: LCS4 | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|---------------------------------|--------------------------------|-------|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: SS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435079 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.025 | 1.000 | 0 | 107 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 111 | 80 | 120 | | | |
| Xylenes, Total | 3.3 | 0.10 | 3.000 | 0 | 109 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.50 | | 0.5000 | | 99.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.46 | | 0.5000 | | 91.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.50 | | 0.5000 | | 99.7 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | |

| Sample ID: mb | SampType: MBLK | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|-----------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: SS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435085 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007086

07-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St. Com 1 H

| Sample ID: mb | SampType: MBLK | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|-----------------------------|--------------------------------|-------|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: SS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435085 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.45 | | 0.5000 | | 90.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.51 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.51 | | 0.5000 | | 102 | 70 | 130 | | | |

| Sample ID: 2007086-001ams | SampType: MS4 | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|----------------------------------|--------------------------------|-------|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-1 0-6 | Batch ID: SS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435174 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.85 | 0.020 | 0.8150 | 0 | 105 | 71.1 | 115 | | | |
| Toluene | 0.90 | 0.041 | 0.8150 | 0 | 111 | 79.6 | 132 | | | |
| Ethylbenzene | 0.94 | 0.041 | 0.8150 | 0 | 115 | 83.8 | 134 | | | |
| Xylenes, Total | 2.7 | 0.082 | 2.445 | 0 | 112 | 82.4 | 132 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.41 | | 0.4075 | | 102 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.36 | | 0.4075 | | 89.1 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.40 | | 0.4075 | | 98.3 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.43 | | 0.4075 | | 106 | 70 | 130 | | | |

| Sample ID: 2007086-001amsd | SampType: MSD4 | | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | |
|-----------------------------------|--------------------------------|-------|---|-------------|---------------------|----------|-----------|-------|----------|------|
| Client ID: S-1 0-6 | Batch ID: SS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435175 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.84 | 0.020 | 0.8150 | 0 | 103 | 71.1 | 115 | 1.63 | 20 | |
| Toluene | 0.88 | 0.041 | 0.8150 | 0 | 108 | 79.6 | 132 | 1.92 | 20 | |
| Ethylbenzene | 0.93 | 0.041 | 0.8150 | 0 | 115 | 83.8 | 134 | 0.296 | 20 | |
| Xylenes, Total | 2.7 | 0.082 | 2.445 | 0 | 111 | 82.4 | 132 | 1.03 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 0.42 | | 0.4075 | | 102 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 0.37 | | 0.4075 | | 90.1 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 0.41 | | 0.4075 | | 102 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.44 | | 0.4075 | | 109 | 70 | 130 | 0 | 0 | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007086

07-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St. Com 1 H

| Sample ID: 2007086-006ams | SampType: MS | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|----------------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-4 1-R | Batch ID: R70085 | RunNo: 70085 | | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | SeqNo: 2435242 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.021 | 0.8460 | 0 | 118 | 70 | 130 | | | |
| Toluene | 0.89 | 0.042 | 0.8460 | 0 | 105 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.44 | | 0.4230 | | 104 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.38 | | 0.4230 | | 90.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.42 | | 0.4230 | | 100 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.43 | | 0.4230 | | 103 | 70 | 130 | | | |

| Sample ID: 2007086-006amsd | SampType: MSD | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S-4 1-R | Batch ID: R70085 | RunNo: 70085 | | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | SeqNo: 2435243 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.021 | 0.8460 | 0 | 109 | 70 | 130 | 7.89 | 20 | |
| Toluene | 0.80 | 0.042 | 0.8460 | 0 | 94.7 | 70 | 130 | 10.6 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 0.44 | | 0.4230 | | 103 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 0.39 | | 0.4230 | | 92.2 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 0.42 | | 0.4230 | | 98.3 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.42 | | 0.4230 | | 100 | 70 | 130 | 0 | 0 | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007086

07-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St. Com 1 H

| Sample ID: mb1 | SampType: MBLK | | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: G70085 | | RunNo: 70085 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435068 | | 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 | 500 | | 500.0 | | 100 | 70 | 130 | | | |

| Sample ID: 2.5ug gro lcs | SampType: LCS | | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | |
|---------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: G70085 | | RunNo: 70085 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435069 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 19 | 5.0 | 25.00 | 0 | 77.4 | 70 | 130 | | | |
| Surr: BFB | 510 | | 500.0 | | 101 | 70 | 130 | | | |

| Sample ID: mb | SampType: MBLK | | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: GS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435092 | | 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 | 510 | | 500.0 | | 102 | 70 | 130 | | | |

| Sample ID: 2.5ug gro lcs | SampType: LCS | | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | |
|---------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: GS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435093 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 98.4 | 70 | 130 | | | |
| Surr: BFB | 500 | | 500.0 | | 101 | 70 | 130 | | | |

| Sample ID: 2007086-001ams | SampType: MS | | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | |
|----------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-1 0-6 | Batch ID: GS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435178 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 4.1 | 20.38 | 0 | 106 | 70 | 130 | | | |
| Surr: BFB | 420 | | 407.5 | | 102 | 70 | 130 | | | |

| Sample ID: 2007086-001amsd | SampType: MSD | | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | |
|-----------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: S-1 0-6 | Batch ID: GS70086 | | RunNo: 70086 | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | | SeqNo: 2435179 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007086

07-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St. Com 1 H

| Sample ID: 2007086-001amsd | SampType: MSD | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------|-------------|---------------------|----------|-----------|-------|----------|------|
| Client ID: S-1 0-6 | Batch ID: GS70086 | RunNo: 70086 | | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | SeqNo: 2435179 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 4.1 | 20.38 | 0 | 105 | 70 | 130 | 0.795 | 20 | |
| Surr: BFB | 420 | | 407.5 | | 104 | 70 | 130 | 0 | 0 | |

| Sample ID: 2007086-007ams | SampType: MS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|----------------------------------|--------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: BG-1 0 | Batch ID: G70085 | RunNo: 70085 | | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | SeqNo: 2435244 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 16 | 4.2 | 20.88 | 0 | 78.4 | 70 | 130 | | | |
| Surr: BFB | 420 | | 417.7 | | 100 | 70 | 130 | | | |

| Sample ID: 2007086-007amsd | SampType: MSD | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-----------------------------------|--------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: BG-1 0 | Batch ID: G70085 | RunNo: 70085 | | | | | | | | |
| Prep Date: | Analysis Date: 7/2/2020 | SeqNo: 2435245 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 16 | 4.2 | 20.88 | 0 | 74.8 | 70 | 130 | 4.80 | 20 | |
| Surr: BFB | 420 | | 417.7 | | 101 | 70 | 130 | 0 | 0 | |

Qualifiers:

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



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: 2007086 RcptNo: 1

Received By: Juan Rojas 7/2/2020 8:00:00 AM
Completed By: Juan Rojas 7/2/2020 8:22:39 AM
Reviewed By: SPA 7.2.20

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [signature] 07/02/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Client: PIMA ENVIRONMENTAL

Mailing Address: 1601 N - Turner St. Soc

Phone #: 631-6977

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time: same DAY
 Standard Rush

Project Name: COTTONTAIL 16 St. Com #1 H

Project #: 17

Project Manager: Chris Jones

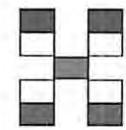
Sampler: Robert CARRER

On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): 4.2 to 0.2 = 4.4 (°C)

Container Type and #
 Preservative Type
 HEAL No.
7007086



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | 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 | |
|--------|------|--------|-------------|----------------------|-------------------|----------|----------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|--|------------|-----------------|---------------------------------|-----------|--|
| 7/1/20 | 1200 | Soil | S-1 0-6 | SAR | ICE | -001 | ✓ | ✓ | | | | | | | | | | |
| | 1205 | | S-1 1-R | | | -002 | | | | | | | | | | | | |
| | 1215 | | S-2 0-6-R | | | -003 | | | | | | | | | | | | |
| | 1225 | | S-3 0-6-R | | | -004 | | | | | | | | | | | | |
| | 1235 | | S-4 0-6 | | | -005 | | | | | | | | | | | | |
| | 1245 | | S-4 1-R | | | -006 | | | | | | | | | | | | |
| | 1255 | | BG-1 0 | | | -007 | | | | | | | | | | | | |
| | 105 | | BG-2 0 | | | -008 | | | | | | | | | | | | |
| | 115 | | BG-3 0 | | | -009 | | | | | | | | | | | | |

Date: 7/1/20 Time: 1130 Relinquished by: [Signature]

Received by: [Signature] Via: Date: 7/1/20 Time: 1130

Remarks:

Date: 7/1/20 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Via: courier Date: 7/2/20 Time: 8:00



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

July 17, 2020

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

RE: Cottontail 16 St Com 1H

OrderNo.: 2007713

Dear Chris Jones:

Hall Environmental Analysis Laboratory received 11 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 light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S1-CE

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-001

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 7/15/2020 11:49:51 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/15/2020 11:49:51 AM |
| Surr: DNOP | 105 | 55.1-146 | | %Rec | 1 | 7/15/2020 11:49:51 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.7 | | mg/Kg | 1 | 7/15/2020 10:12:30 AM |
| Surr: BFB | 82.1 | 66.6-105 | | %Rec | 1 | 7/15/2020 10:12:30 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.013 | | mg/Kg | 1 | 7/15/2020 10:12:30 AM |
| Toluene | ND | 0.027 | | mg/Kg | 1 | 7/15/2020 10:12:30 AM |
| Ethylbenzene | ND | 0.027 | | mg/Kg | 1 | 7/15/2020 10:12:30 AM |
| Xylenes, Total | ND | 0.053 | | mg/Kg | 1 | 7/15/2020 10:12:30 AM |
| Surr: 4-Bromofluorobenzene | 98.4 | 80-120 | | %Rec | 1 | 7/15/2020 10:12:30 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 11:30:49 AM |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S2-CE

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-002

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| 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 | 7/15/2020 11:59:30 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/15/2020 11:59:30 AM |
| Surr: DNOP | 104 | 55.1-146 | | %Rec | 1 | 7/15/2020 11:59:30 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 2.1 | | mg/Kg | 1 | 7/15/2020 12:33:29 PM |
| Surr: BFB | 88.5 | 66.6-105 | | %Rec | 1 | 7/15/2020 12:33:29 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.010 | | mg/Kg | 1 | 7/15/2020 12:33:29 PM |
| Toluene | ND | 0.021 | | mg/Kg | 1 | 7/15/2020 12:33:29 PM |
| Ethylbenzene | ND | 0.021 | | mg/Kg | 1 | 7/15/2020 12:33:29 PM |
| Xylenes, Total | ND | 0.042 | | mg/Kg | 1 | 7/15/2020 12:33:29 PM |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 7/15/2020 12:33:29 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 11:43:09 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S3-CN

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-003

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 130 | 9.7 | | mg/Kg | 1 | 7/15/2020 12:09:14 PM |
| Motor Oil Range Organics (MRO) | 70 | 49 | | mg/Kg | 1 | 7/15/2020 12:09:14 PM |
| Surr: DNOP | 116 | 55.1-146 | | %Rec | 1 | 7/15/2020 12:09:14 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.2 | | mg/Kg | 1 | 7/15/2020 12:56:58 PM |
| Surr: BFB | 85.3 | 66.6-105 | | %Rec | 1 | 7/15/2020 12:56:58 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.021 | | mg/Kg | 1 | 7/15/2020 12:56:58 PM |
| Toluene | ND | 0.042 | | mg/Kg | 1 | 7/15/2020 12:56:58 PM |
| Ethylbenzene | ND | 0.042 | | mg/Kg | 1 | 7/15/2020 12:56:58 PM |
| Xylenes, Total | ND | 0.083 | | mg/Kg | 1 | 7/15/2020 12:56:58 PM |
| Surr: 4-Bromofluorobenzene | 105 | 80-120 | | %Rec | 1 | 7/15/2020 12:56:58 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 11:55:29 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S4-CW

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-004

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 4000 | 95 | | mg/Kg | 10 | 7/15/2020 12:19:03 PM |
| Motor Oil Range Organics (MRO) | 1800 | 470 | | mg/Kg | 10 | 7/15/2020 12:19:03 PM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 7/15/2020 12:19:03 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 96 | 19 | | mg/Kg | 5 | 7/15/2020 1:20:34 PM |
| Surr: BFB | 360 | 66.6-105 | S | %Rec | 5 | 7/15/2020 1:20:34 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.096 | | mg/Kg | 5 | 7/15/2020 1:20:34 PM |
| Toluene | ND | 0.19 | | mg/Kg | 5 | 7/15/2020 1:20:34 PM |
| Ethylbenzene | ND | 0.19 | | mg/Kg | 5 | 7/15/2020 1:20:34 PM |
| Xylenes, Total | 0.46 | 0.38 | | mg/Kg | 5 | 7/15/2020 1:20:34 PM |
| Surr: 4-Bromofluorobenzene | 114 | 80-120 | | %Rec | 5 | 7/15/2020 1:20:34 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 12:07:50 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S5-CW

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-005

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 39 | 9.9 | | mg/Kg | 1 | 7/15/2020 12:28:53 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/15/2020 12:28:53 PM |
| Surr: DNOP | 133 | 55.1-146 | | %Rec | 1 | 7/15/2020 12:28:53 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.9 | | mg/Kg | 1 | 7/15/2020 2:07:33 PM |
| Surr: BFB | 87.7 | 66.6-105 | | %Rec | 1 | 7/15/2020 2:07:33 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 7/15/2020 2:07:33 PM |
| Toluene | ND | 0.039 | | mg/Kg | 1 | 7/15/2020 2:07:33 PM |
| Ethylbenzene | ND | 0.039 | | mg/Kg | 1 | 7/15/2020 2:07:33 PM |
| Xylenes, Total | ND | 0.078 | | mg/Kg | 1 | 7/15/2020 2:07:33 PM |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 7/15/2020 2:07:33 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 12:20:10 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S6-CS

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-006

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 61 | 9.6 | | mg/Kg | 1 | 7/15/2020 12:38:46 PM |
| Motor Oil Range Organics (MRO) | 88 | 48 | | mg/Kg | 1 | 7/15/2020 12:38:46 PM |
| Surr: DNOP | 113 | 55.1-146 | | %Rec | 1 | 7/15/2020 12:38:46 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.0 | | mg/Kg | 1 | 7/15/2020 2:31:03 PM |
| Surr: BFB | 87.9 | 66.6-105 | | %Rec | 1 | 7/15/2020 2:31:03 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 7/15/2020 2:31:03 PM |
| Toluene | ND | 0.040 | | mg/Kg | 1 | 7/15/2020 2:31:03 PM |
| Ethylbenzene | ND | 0.040 | | mg/Kg | 1 | 7/15/2020 2:31:03 PM |
| Xylenes, Total | ND | 0.080 | | mg/Kg | 1 | 7/15/2020 2:31:03 PM |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 7/15/2020 2:31:03 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | ND | 59 | | mg/Kg | 20 | 7/15/2020 12:32:31 PM |

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

| | | |
|--------------------|---|---|
| Qualifiers: | * Value exceeds Maximum Contaminant Level. | 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S7-CS

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-007

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 11 | 9.5 | | mg/Kg | 1 | 7/15/2020 12:48:40 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/15/2020 12:48:40 PM |
| Surr: DNOP | 126 | 55.1-146 | | %Rec | 1 | 7/15/2020 12:48:40 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.9 | | mg/Kg | 1 | 7/15/2020 2:54:34 PM |
| Surr: BFB | 86.3 | 66.6-105 | | %Rec | 1 | 7/15/2020 2:54:34 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/15/2020 2:54:34 PM |
| Toluene | ND | 0.039 | | mg/Kg | 1 | 7/15/2020 2:54:34 PM |
| Ethylbenzene | ND | 0.039 | | mg/Kg | 1 | 7/15/2020 2:54:34 PM |
| Xylenes, Total | ND | 0.078 | | mg/Kg | 1 | 7/15/2020 2:54:34 PM |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 7/15/2020 2:54:34 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 12:44:52 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S8-CW

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-008

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 30 | 9.7 | | mg/Kg | 1 | 7/15/2020 12:58:35 PM |
| Motor Oil Range Organics (MRO) | 52 | 48 | | mg/Kg | 1 | 7/15/2020 12:58:35 PM |
| Surr: DNOP | 113 | 55.1-146 | | %Rec | 1 | 7/15/2020 12:58:35 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.8 | | mg/Kg | 1 | 7/15/2020 3:18:09 PM |
| Surr: BFB | 86.8 | 66.6-105 | | %Rec | 1 | 7/15/2020 3:18:09 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/15/2020 3:18:09 PM |
| Toluene | ND | 0.038 | | mg/Kg | 1 | 7/15/2020 3:18:09 PM |
| Ethylbenzene | ND | 0.038 | | mg/Kg | 1 | 7/15/2020 3:18:09 PM |
| Xylenes, Total | ND | 0.076 | | mg/Kg | 1 | 7/15/2020 3:18:09 PM |
| Surr: 4-Bromofluorobenzene | 106 | 80-120 | | %Rec | 1 | 7/15/2020 3:18:09 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | 130 | 60 | | mg/Kg | 20 | 7/15/2020 1:21:52 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S9-CN

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-009

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| 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 | 7/15/2020 1:08:32 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/15/2020 1:08:32 PM |
| Surr: DNOP | 113 | 55.1-146 | | %Rec | 1 | 7/15/2020 1:08:32 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.8 | | mg/Kg | 1 | 7/15/2020 3:41:46 PM |
| Surr: BFB | 88.9 | 66.6-105 | | %Rec | 1 | 7/15/2020 3:41:46 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.019 | | mg/Kg | 1 | 7/15/2020 3:41:46 PM |
| Toluene | ND | 0.038 | | mg/Kg | 1 | 7/15/2020 3:41:46 PM |
| Ethylbenzene | ND | 0.038 | | mg/Kg | 1 | 7/15/2020 3:41:46 PM |
| Xylenes, Total | ND | 0.076 | | mg/Kg | 1 | 7/15/2020 3:41:46 PM |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | | %Rec | 1 | 7/15/2020 3:41:46 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 150 | 60 | | mg/Kg | 20 | 7/15/2020 11:30:05 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S10-CS

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-010

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 340 | 48 | | mg/Kg | 5 | 7/15/2020 1:18:28 PM |
| Motor Oil Range Organics (MRO) | 370 | 240 | | mg/Kg | 5 | 7/15/2020 1:18:28 PM |
| Surr: DNOP | 117 | 55.1-146 | | %Rec | 5 | 7/15/2020 1:18:28 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.7 | | mg/Kg | 1 | 7/15/2020 4:05:25 PM |
| Surr: BFB | 88.4 | 66.6-105 | | %Rec | 1 | 7/15/2020 4:05:25 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.018 | | mg/Kg | 1 | 7/15/2020 4:05:25 PM |
| Toluene | ND | 0.037 | | mg/Kg | 1 | 7/15/2020 4:05:25 PM |
| Ethylbenzene | ND | 0.037 | | mg/Kg | 1 | 7/15/2020 4:05:25 PM |
| Xylenes, Total | ND | 0.074 | | mg/Kg | 1 | 7/15/2020 4:05:25 PM |
| Surr: 4-Bromofluorobenzene | 110 | 80-120 | | %Rec | 1 | 7/15/2020 4:05:25 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 11:42:30 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 **2007713**

Date Reported: **7/17/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Pima Environmental Services LLC

Client Sample ID: S11-CN

Project: Cottontail 16 St Com 1H

Collection Date: 7/14/2020

Lab ID: 2007713-011

Matrix: MEOH (SOIL)

Received Date: 7/15/2020 9:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 170 | 19 | | mg/Kg | 2 | 7/15/2020 2:32:31 PM |
| Motor Oil Range Organics (MRO) | 230 | 97 | | mg/Kg | 2 | 7/15/2020 2:32:31 PM |
| Surr: DNOP | 111 | 55.1-146 | | %Rec | 2 | 7/15/2020 2:32:31 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.9 | | mg/Kg | 1 | 7/15/2020 4:28:58 PM |
| Surr: BFB | 89.0 | 66.6-105 | | %Rec | 1 | 7/15/2020 4:28:58 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.020 | | mg/Kg | 1 | 7/15/2020 4:28:58 PM |
| Toluene | ND | 0.039 | | mg/Kg | 1 | 7/15/2020 4:28:58 PM |
| Ethylbenzene | ND | 0.039 | | mg/Kg | 1 | 7/15/2020 4:28:58 PM |
| Xylenes, Total | ND | 0.078 | | mg/Kg | 1 | 7/15/2020 4:28:58 PM |
| Surr: 4-Bromofluorobenzene | 109 | 80-120 | | %Rec | 1 | 7/15/2020 4:28:58 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/15/2020 11:54:54 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#: 2007713

17-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St Com 1H

| Sample ID: MB-53723 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53723 | RunNo: 70358 | | | | | | | | |
| Prep Date: 7/15/2020 | Analysis Date: 7/15/2020 | SeqNo: 2446385 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-53723 | SampType: ics | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53723 | RunNo: 70358 | | | | | | | | |
| Prep Date: 7/15/2020 | Analysis Date: 7/15/2020 | SeqNo: 2446386 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 15 | 1.5 | 15.00 | 0 | 96.9 | 90 | 110 | | | |

| Sample ID: LCS-53722 | SampType: ics | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53722 | RunNo: 70356 | | | | | | | | |
| Prep Date: 7/15/2020 | Analysis Date: 7/15/2020 | SeqNo: 2446489 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.7 | 90 | 110 | | | |

| Sample ID: MB-53722 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53722 | RunNo: 70356 | | | | | | | | |
| Prep Date: 7/15/2020 | Analysis Date: 7/15/2020 | SeqNo: 2446490 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

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#: 2007713

17-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St Com 1H

| Sample ID: MB-53717 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53717 | RunNo: 70344 | | | | | | | | |
| Prep Date: 7/15/2020 | Analysis Date: 7/15/2020 | SeqNo: 2444873 | 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 | | 109 | 55.1 | 146 | | | |

| Sample ID: LCS-53717 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53717 | RunNo: 70344 | | | | | | | | |
| Prep Date: 7/15/2020 | Analysis Date: 7/15/2020 | SeqNo: 2444874 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 10 | 50.00 | 0 | 95.5 | 70 | 130 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 93.2 | 55.1 | 146 | | | |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007713

17-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St Com 1H

| Sample ID: mb1 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: G70352 | | RunNo: 70352 | | | | | | | |
| Prep Date: | Analysis Date: 7/15/2020 | | SeqNo: 2445974 | | 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 | 890 | | 1000 | | 89.0 | 66.6 | 105 | | | |

| Sample ID: 2.5ug gro lcsb | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|----------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: G70352 | | RunNo: 70352 | | | | | | | |
| Prep Date: | Analysis Date: 7/15/2020 | | SeqNo: 2445975 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 | 5.0 | 25.00 | 0 | 90.1 | 80 | 120 | | | |
| Surr: BFB | 950 | | 1000 | | 94.8 | 66.6 | 105 | | | |

| Sample ID: mb-53699 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-----------------------------|---------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53699 | | RunNo: 70352 | | | | | | | |
| Prep Date: 7/14/2020 | Analysis Date: 7/16/2020 | | SeqNo: 2445995 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 920 | | 1000 | | 92.4 | 66.6 | 105 | | | |

| Sample ID: lcs-53699 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-----------------------------|---------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53699 | | RunNo: 70352 | | | | | | | |
| Prep Date: 7/14/2020 | Analysis Date: 7/15/2020 | | SeqNo: 2445996 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 960 | | 1000 | | 96.4 | 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#: 2007713

17-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St Com 1H

| Sample ID: mb1 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: B70352 | RunNo: 70352 | | | | | | | | |
| Prep Date: | Analysis Date: 7/15/2020 | SeqNo: 2446022 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

| Sample ID: 100ng btex lcs | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: B70352 | RunNo: 70352 | | | | | | | | |
| Prep Date: | Analysis Date: 7/15/2020 | SeqNo: 2446023 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 | 0.025 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Ethylbenzene | 0.98 | 0.050 | 1.000 | 0 | 98.0 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.0 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 80 | 120 | | | |

| Sample ID: 2007713-001ams | SampType: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: S1-CE | Batch ID: B70352 | RunNo: 70352 | | | | | | | | |
| Prep Date: | Analysis Date: 7/15/2020 | SeqNo: 2446041 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.55 | 0.013 | 0.5342 | 0 | 103 | 78.5 | 119 | | | |
| Toluene | 0.54 | 0.027 | 0.5342 | 0 | 102 | 75.7 | 123 | | | |
| Ethylbenzene | 0.55 | 0.027 | 0.5342 | 0 | 102 | 74.3 | 126 | | | |
| Xylenes, Total | 1.7 | 0.053 | 1.603 | 0 | 103 | 72.9 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.59 | | 0.5342 | | 110 | 80 | 120 | | | |

| Sample ID: 2007713-001amsd | SampType: MSD | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------------|---------------------------------|--|---------------------|-------------|------|----------|-----------|-------|----------|------|
| Client ID: S1-CE | Batch ID: B70352 | RunNo: 70352 | | | | | | | | |
| Prep Date: | Analysis Date: 7/15/2020 | SeqNo: 2446042 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.55 | 0.013 | 0.5342 | 0 | 102 | 78.5 | 119 | 0.545 | 20 | |
| Toluene | 0.55 | 0.027 | 0.5342 | 0 | 103 | 75.7 | 123 | 0.655 | 20 | |
| Ethylbenzene | 0.54 | 0.027 | 0.5342 | 0 | 102 | 74.3 | 126 | 0.490 | 20 | |
| Xylenes, Total | 1.7 | 0.053 | 1.603 | 0 | 104 | 72.9 | 130 | 0.620 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.62 | | 0.5342 | | 116 | 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2007713

17-Jul-20

Client: Pima Environmental Services LLC

Project: Cottontail 16 St Com 1H

| Sample ID: mb-53699 | SampType: MBLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 53699 | RunNo: 70352 | | | | | | | | |
| Prep Date: 7/14/2020 | Analysis Date: 7/16/2020 | SeqNo: 2446043 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 109 | 80 | 120 | | | |

| Sample ID: LCS-53699 | SampType: LCS | TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 53699 | RunNo: 70352 | | | | | | | | |
| Prep Date: 7/14/2020 | Analysis Date: 7/15/2020 | SeqNo: 2446044 | Units: %Rec | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 110 | 80 | 120 | | | |

Qualifiers:

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



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: 2007713 RcptNo: 1

Received By: **Juan Rojas** 7/15/2020 9:30:00 AM *Juan Rojas*
 Completed By: **Juan Rojas** 7/15/2020 9:54:00 AM *Juan Rojas*
 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: *SPA 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 | 3.4 | Good | | | | |

Chain-of-Custody Record

Client: Pima Environmental

Mailing Address: 1601 N. Turner Ste 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: SAME DAY
 Standard Rush 24 Hr

Project Name: Cottontail 16 St Corn 1 H

Project #: 20809250

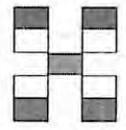
Project Manager: Chris Jones

Sampler: Robert Corpe

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.3+0.1 = 3.4 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | 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 |
|--------------------|------|--------|-------------|----------------------|-------------------|----------|----------------------------|----------------------------|----------------------------|--------------------|--------------------------|---------------|--|------------|-----------------|---------------------------------|-----------|
| 7-12-20 | | Soil | S1-CE | JAL | ICE | -001 | ✓ | ✓ | | | | | | | | | ✓ |
| | | | S2-CE | | | -002 | | | | | | | | | | | |
| | | | S3-CN | | | -003 | | | | | | | | | | | |
| | | | S4-CW | | | -004 | | | | | | | | | | | |
| | | | S5-CW | | | -005 | | | | | | | | | | | |
| | | | S6-CS | | | -006 | | | | | | | | | | | |
| | | | S7-CS | | | -007 | | | | | | | | | | | |
| | | | S8-CW | | | -008 | | | | | | | | | | | |
| | | | S9-CN | | | -009 | | | | | | | | | | | |
| | | | S10-CS | | | -010 | | | | | | | | | | | |
| | | | S11-CN | | | -011 | | | | | | | | | | | |

Date: 7/14/20 Time: 0930 Relinquished by: [Signature]

Date: 7/14/20 Time: 0930 Received by: [Signature] Via: _____

Date: 7/14/20 Time: 1900 Relinquished by: [Signature]

Date: 7/15/20 Time: 9:30 Received by: [Signature] Via: Courier

Remarks: Devon Direct Bill

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.



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

July 22, 2020

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: COTTONTAIL 16 1H

Enclosed are the results of analyses for samples received by the laboratory on 07/21/20 9:25.

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

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

| | |
|------------------|------------------------------|
| Method EPA 552.2 | 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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|------------------|---------------------|----------------|
| Received: | 07/21/2020 | Sampling Date: | 07/21/2020 |
| Reported: | 07/22/2020 | Sampling Type: | Soil |
| Project Name: | COTTONTAIL 16 1H | Sampling Condition: | Cool & Intact |
| Project Number: | 20809250 | Sample Received By: | Tamara Oldaker |
| Project Location: | DEVON | | |

Sample ID: S 4 - CW (H001886-01)

| TPH 8015M | mg/kg | Analyzed By: MS | | | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 07/21/2020 | ND | 220 | 110 | 200 | 0.522 | |
| DRO >C10-C28* | <10.0 | 10.0 | 07/21/2020 | ND | 222 | 111 | 200 | 3.59 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 07/21/2020 | ND | | | | | |
| <hr/> | | | | | | | | | |
| Surrogate: 1-Chlorooctane | 93.1 % | 44.3-144 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 % | 42.2-156 | | | | | | | |

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | | | | | | | | | | | | | |
|--|--|-----------------------|--|--|--|------------------------------------|--|----------------|--|-------------|--|---------|--|--|--|
| Company Name: <u>Pima Environmental</u> | | BILL TO | | ANALYSIS REQUEST | | | | | | | | | | | |
| Project Manager: <u>Chris Jones</u> | | P.O. #: | | | | | | | | | | | | | |
| Address: <u>1601 N. Turner Ste 500</u> | | Company: <u>DEVON</u> | | | | | | | | | | | | | |
| City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> | | Attn: | | | | | | | | | | | | | |
| Phone #: <u>575-631-6977</u> Fax #: | | Address: | | | | | | | | | | | | | |
| Project #: <u>20809250</u> Project Owner: <u>DEVON</u> | | City: | | | | | | | | | | | | | |
| Project Name: <u>Cotton tail 16 IH</u> | | State: Zip: | | | | | | | | | | | | | |
| Project Location: | | Phone #: | | | | | | | | | | | | | |
| Sampler Name: | | Fax #: | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | TPH EXT | | | |
| Lab I.D. | | Sample I.D. | | MATRIX | | PRESERV. | | SAMPLING | | | | | | | |
| <u>H001886</u> <u>1</u> | | <u>54-CW</u> | | GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: | | ACID/BASE: ICE / COOL OTHER: | | DATE | | TIME | | | | | |
| | | | | | | | | <u>7/21/20</u> | | <u>0840</u> | | | | | |

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | | | | | |
|------------------------------|--|------------------------------|--|---|--|---|--|
| Relinquished By: | | Date: <u>7-21-20</u> | | Received By: | | Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: | |
| | | Time: <u>0925</u> | | <u>Jamara Oldaker</u> | | All Results are emailed. Please provide Email address: | |
| Relinquished By: | | Date: | | | | REMARKS: | |
| | | Time: | | | | <u>Bill to Devon</u> | |
| Delivered By: (Circle One) | | Observed Temp. °C <u>4.8</u> | | Sample Condition | | Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> | |
| Sampler - UPS - Bus - Other: | | Corrected Temp. °C | | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No | | Bacteria (only) Sample Condition | |
| | | | | CHECKED BY: (Initials) <u>TO</u> | | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No | |
| | | | | | | Thermometer ID #113 | |
| | | | | | | Correction Factor None | |
| | | | | | | Corrected Temp. °C | |

FORM-006 R 3.1 06/04/20

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabnm.com

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cottontail 16 St Com 1H

Work Order: E303039

Job Number: 21064-0001

Received: 3/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/23

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: 3/17/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cottontail 16 St Com 1H
Workorder: E303039
Date Received: 3/13/2023 8:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/13/2023 8:45:00AM, under the Project Name: Cottontail 16 St Com 1H.

The analytical test results summarized in this report with the Project Name: Cottontail 16 St Com 1H 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
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

| | |
|---|----|
| Title Page | 1 |
| Cover Page | 2 |
| Table of Contents | 3 |
| Sample Summary | 4 |
| Sample Data | 5 |
| CS-1 2' | 5 |
| CS-1 3' | 6 |
| CS-1 4' | 7 |
| CS-2 2' | 8 |
| CS-2 3' | 9 |
| CS-2 4' | 10 |
| CSW-1 | 11 |
| CSW-2 | 12 |
| CSW-3 | 13 |
| CSW-4 | 14 |
| QC Summary Data | 15 |
| QC - Volatile Organic Compounds by EPA 8260B | 15 |
| QC - Nonhalogenated Organics by EPA 8015D - GRO | 16 |
| QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO | 17 |
| QC - Anions by EPA 300.0/9056A | 18 |
| Definitions and Notes | 19 |
| Chain of Custody etc. | 20 |

Sample Summary

| | | |
|---|---|------------------------------------|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 03/17/23 11:11 |
|---|---|------------------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| CS-1 2' | E303039-01A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CS-1 3' | E303039-02A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CS-1 4' | E303039-03A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CS-2 2' | E303039-04A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CS-2 3' | E303039-05A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CS-2 4' | E303039-06A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CSW-1 | E303039-07A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CSW-2 | E303039-08A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CSW-3 | E303039-09A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |
| CSW-4 | E303039-10A | Soil | 03/09/23 | 03/13/23 | Glass Jar, 2 oz. |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CS-1 2'

E303039-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---------|--------|-----------------|----------|----------|----------|-------|
|---------|--------|-----------------|----------|----------|----------|-------|

| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | Analyst: SL | | Batch: 2311008 |
|--|-------|--------|-------------|----------|----------------|
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 |

| | | | | | |
|---|--------|--------|--|----------|----------|
| <i>Surrogate: Bromofluorobenzene</i> | 97.5 % | 70-130 | | 03/14/23 | 03/14/23 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 114 % | 70-130 | | 03/14/23 | 03/14/23 |
| <i>Surrogate: Toluene-d8</i> | 99.1 % | 70-130 | | 03/14/23 | 03/14/23 |

| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: SL | | Batch: 2311008 |
|---|--------|--------|-------------|----------|----------------|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 |
| <i>Surrogate: Bromofluorobenzene</i> | 97.5 % | 70-130 | | 03/14/23 | 03/14/23 |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 114 % | 70-130 | | 03/14/23 | 03/14/23 |
| <i>Surrogate: Toluene-d8</i> | 99.1 % | 70-130 | | 03/14/23 | 03/14/23 |

| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: JL | | Batch: 2311024 |
|---|-------|--------|-------------|----------|----------------|
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 |
| <i>Surrogate: n-Nonane</i> | 104 % | 50-200 | | 03/14/23 | 03/15/23 |

| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: BA | | Batch: 2311004 |
|----------------------------------|-------|-------|-------------|----------|----------------|
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CS-1 3'

E303039-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 99.1 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 117 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 100 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 99.1 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 117 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 100 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 | |
| <i>Surrogate: n-Nonane</i> | | 104 % | 50-200 | 03/14/23 | 03/15/23 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CS-1 4'

E303039-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 103 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 123 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 99.9 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 103 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 123 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 99.9 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 | |
| <i>Surrogate: n-Nonane</i> | | 92.3 % | 50-200 | 03/14/23 | 03/15/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CS-2 2'

E303039-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 118 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 98.3 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 118 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 98.3 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/16/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/16/23 | |
| <i>Surrogate: n-Nonane</i> | | 98.2 % | 50-200 | 03/14/23 | 03/16/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CS-2 3'

E303039-05

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | mg/kg | mg/kg | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 100 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 118 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | mg/kg | mg/kg | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 100 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 118 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | mg/kg | mg/kg | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/16/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/16/23 | |
| <i>Surrogate: n-Nonane</i> | | 112 % | 50-200 | 03/14/23 | 03/16/23 | |
| Anions by EPA 300.0/9056A | | mg/kg | mg/kg | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CS-2 4'

E303039-06

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 123 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 97.9 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 123 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 97.9 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 | |
| <i>Surrogate: n-Nonane</i> | | 84.0 % | 50-200 | 03/14/23 | 03/15/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CSW-1

E303039-07

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 100 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 120 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 100 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 120 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 | |
| <i>Surrogate: n-Nonane</i> | | 102 % | 50-200 | 03/14/23 | 03/15/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CSW-2

E303039-08

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 115 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 115 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 | |
| <i>Surrogate: n-Nonane</i> | | 102 % | 50-200 | 03/14/23 | 03/15/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CSW-3

E303039-09

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 112 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 98.7 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 101 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 112 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 98.7 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 | |
| <i>Surrogate: n-Nonane</i> | | 80.9 % | 50-200 | 03/14/23 | 03/15/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



Sample Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

CSW-4

E303039-10

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Benzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Ethylbenzene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| Toluene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| o-Xylene | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| p,m-Xylene | ND | 0.0500 | 1 | 03/14/23 | 03/14/23 | |
| Total Xylenes | ND | 0.0250 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 98.9 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 118 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 99.8 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: SL | | Batch: 2311008 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Bromofluorobenzene</i> | | 98.9 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | | 118 % | 70-130 | 03/14/23 | 03/14/23 | |
| <i>Surrogate: Toluene-d8</i> | | 99.8 % | 70-130 | 03/14/23 | 03/14/23 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: JL | | Batch: 2311024 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 03/14/23 | 03/15/23 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 03/14/23 | 03/15/23 | |
| <i>Surrogate: n-Nonane</i> | | 102 % | 50-200 | 03/14/23 | 03/15/23 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: BA | | Batch: 2311004 |
| Chloride | ND | 20.0 | 1 | 03/13/23 | 03/14/23 | |



QC Summary Data

| | | |
|---|---|-----------------------------------|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|-----------------------------------|

Volatile Organic Compounds by EPA 8260B

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2311008-BLK1)

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|-----|--|--------|--|--|
| 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: Bromofluorobenzene | 0.503 | | 0.500 | | 101 | | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.598 | | 0.500 | | 120 | | 70-130 | | |
| Surrogate: Toluene-d8 | 0.505 | | 0.500 | | 101 | | 70-130 | | |

LCS (2311008-BS1)

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|-----|--|--------|--|--|
| Benzene | 2.68 | 0.0250 | 2.50 | | 107 | | 70-130 | | |
| Ethylbenzene | 2.70 | 0.0250 | 2.50 | | 108 | | 70-130 | | |
| Toluene | 2.76 | 0.0250 | 2.50 | | 110 | | 70-130 | | |
| o-Xylene | 2.76 | 0.0250 | 2.50 | | 111 | | 70-130 | | |
| p,m-Xylene | 5.53 | 0.0500 | 5.00 | | 111 | | 70-130 | | |
| Total Xylenes | 8.29 | 0.0250 | 7.50 | | 111 | | 70-130 | | |
| Surrogate: Bromofluorobenzene | 0.516 | | 0.500 | | 103 | | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.546 | | 0.500 | | 109 | | 70-130 | | |
| Surrogate: Toluene-d8 | 0.505 | | 0.500 | | 101 | | 70-130 | | |

Matrix Spike (2311008-MS1)

Source: E303039-04

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--|--------|--|--|
| Benzene | 2.28 | 0.0250 | 2.50 | ND | 91.2 | | 48-131 | | |
| Ethylbenzene | 2.34 | 0.0250 | 2.50 | ND | 93.6 | | 45-135 | | |
| Toluene | 2.39 | 0.0250 | 2.50 | ND | 95.5 | | 48-130 | | |
| o-Xylene | 2.40 | 0.0250 | 2.50 | ND | 96.0 | | 43-135 | | |
| p,m-Xylene | 4.79 | 0.0500 | 5.00 | ND | 95.8 | | 43-135 | | |
| Total Xylenes | 7.19 | 0.0250 | 7.50 | ND | 95.9 | | 43-135 | | |
| Surrogate: Bromofluorobenzene | 0.529 | | 0.500 | | 106 | | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.620 | | 0.500 | | 124 | | 70-130 | | |
| Surrogate: Toluene-d8 | 0.515 | | 0.500 | | 103 | | 70-130 | | |

Matrix Spike Dup (2311008-MSD1)

Source: E303039-04

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--|--------|------|----|
| Benzene | 2.20 | 0.0250 | 2.50 | ND | 88.1 | | 48-131 | 3.50 | 23 |
| Ethylbenzene | 2.24 | 0.0250 | 2.50 | ND | 89.6 | | 45-135 | 4.41 | 27 |
| Toluene | 2.30 | 0.0250 | 2.50 | ND | 91.9 | | 48-130 | 3.84 | 24 |
| o-Xylene | 2.32 | 0.0250 | 2.50 | ND | 92.6 | | 43-135 | 3.56 | 27 |
| p,m-Xylene | 4.59 | 0.0500 | 5.00 | ND | 91.7 | | 43-135 | 4.39 | 27 |
| Total Xylenes | 6.90 | 0.0250 | 7.50 | ND | 92.0 | | 43-135 | 4.12 | 27 |
| Surrogate: Bromofluorobenzene | 0.529 | | 0.500 | | 106 | | 70-130 | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.585 | | 0.500 | | 117 | | 70-130 | | |
| Surrogate: Toluene-d8 | 0.504 | | 0.500 | | 101 | | 70-130 | | |



QC Summary Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

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 |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2311008-BLK1)

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|-----|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.503 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.598 | | 0.500 | | 120 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.505 | | 0.500 | | 101 | 70-130 | | | |

LCS (2311008-BS2)

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 48.9 | 20.0 | 50.0 | | 97.8 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.505 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.585 | | 0.500 | | 117 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.515 | | 0.500 | | 103 | 70-130 | | | |

Matrix Spike (2311008-MS2)

Source: E303039-04

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 47.9 | 20.0 | 50.0 | ND | 95.9 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.506 | | 0.500 | | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.571 | | 0.500 | | 114 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.520 | | 0.500 | | 104 | 70-130 | | | |

Matrix Spike Dup (2311008-MSD2)

Source: E303039-04

Prepared: 03/14/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 47.3 | 20.0 | 50.0 | ND | 94.6 | 70-130 | 1.33 | 20 | |
| Surrogate: Bromofluorobenzene | 0.518 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.582 | | 0.500 | | 116 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.507 | | 0.500 | | 101 | 70-130 | | | |



QC Summary Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2311024-BLK1)

Prepared: 03/14/23 Analyzed: 03/15/23

| | | | | | | | | | |
|---------------------------------|------|------|------|--|-----|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 52.3 | | 50.0 | | 105 | 50-200 | | | |

LCS (2311024-BS1)

Prepared: 03/14/23 Analyzed: 03/15/23

| | | | | | | | | | |
|---------------------------------|------|------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 244 | 25.0 | 250 | | 97.7 | 38-132 | | | |
| Surrogate: n-Nonane | 43.6 | | 50.0 | | 87.1 | 50-200 | | | |

Matrix Spike (2311024-MS1)

Source: E303044-22

Prepared: 03/14/23 Analyzed: 03/15/23

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 262 | 25.0 | 250 | ND | 105 | 38-132 | | | |
| Surrogate: n-Nonane | 41.9 | | 50.0 | | 83.8 | 50-200 | | | |

Matrix Spike Dup (2311024-MSD1)

Source: E303044-22

Prepared: 03/14/23 Analyzed: 03/15/23

| | | | | | | | | | |
|---------------------------------|------|------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 266 | 25.0 | 250 | ND | 106 | 38-132 | 1.57 | 20 | |
| Surrogate: n-Nonane | 43.8 | | 50.0 | | 87.6 | 50-200 | | | |



QC Summary Data

| | | |
|---|---|--|
| Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247 | Project Name: Cottontail 16 St Com 1H Project Number: 21064-0001 Project Manager: Tom Bynum | Reported: 3/17/2023 11:11:52AM |
|---|---|--|

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 (2311004-BLK1)

Prepared: 03/13/23 Analyzed: 03/13/23

| | | | | | | | | | |
|----------|----|------|--|--|--|--|--|--|--|
| Chloride | ND | 20.0 | | | | | | | |
|----------|----|------|--|--|--|--|--|--|--|

LCS (2311004-BS1)

Prepared: 03/13/23 Analyzed: 03/13/23

| | | | | | | | | | |
|----------|-----|------|-----|--|-----|--------|--|--|--|
| Chloride | 253 | 20.0 | 250 | | 101 | 90-110 | | | |
|----------|-----|------|-----|--|-----|--------|--|--|--|

Matrix Spike (2311004-MS1)

Source: E303037-21

Prepared: 03/13/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------|-----|------|-----|----|-----|--------|--|--|--|
| Chloride | 255 | 20.0 | 250 | ND | 102 | 80-120 | | | |
|----------|-----|------|-----|----|-----|--------|--|--|--|

Matrix Spike Dup (2311004-MSD1)

Source: E303037-21

Prepared: 03/13/23 Analyzed: 03/14/23

| | | | | | | | | | |
|----------|-----|------|-----|----|-----|--------|-------|----|--|
| Chloride | 254 | 20.0 | 250 | ND | 102 | 80-120 | 0.378 | 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: | Cottontail 16 St Com 1H | |
| PO Box 247 | Project Number: | 21064-0001 | Reported: |
| Plains TX, 79355-0247 | Project Manager: | Tom Bynum | 03/17/23 11:11 |

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.



Project Information

Chain of Custody

Client: Pima Environmental Services
 Project: Cottontail 16 St Com LH
 Project Manager: Tom Bynum
 Address: 56 14 N. Lovington Hwy.
 City, State, Zip: Hobbs, NM, 88240
 Phone: 580-748-1613
 Email: tom@pimaoil.com
 Report due by:

Bill To
 Attention: Pima
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 26-3

| Lab Use Only | | TAT | | | | EPA Program | |
|---------------------|-------------------|--------------|-------------|-------------|----------------|-------------|----------|
| Lab WO# | Job Number | 1D | 2D | 3D | Standard | CWA | SDWA |
| <u>E 303039</u> | <u>21064-0001</u> | | | | <u>X</u> | | |
| Analysis and Method | | | | | | | |
| DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX |
| | | | | | | | |

| State | | | | |
|----------|----|----|----|----|
| NM | CO | UT | AZ | TX |
| <u>X</u> | | | | |

| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Lab Number |
|---------------|---------------|----------|-------------------|----------------|------------|
| <u>7:05am</u> | <u>3/9/23</u> | <u>S</u> | <u>1</u> | <u>CS-1 2'</u> | <u>1</u> |
| <u>7:55am</u> | | | | <u>CS-1 3'</u> | <u>2</u> |
| <u>9:00am</u> | | | | <u>CS-1 4'</u> | <u>3</u> |
| <u>7:10am</u> | | | | <u>CS-2 2'</u> | <u>4</u> |
| <u>7:55am</u> | | | | <u>CS-2 3'</u> | <u>5</u> |
| <u>9:00am</u> | | | | <u>CS-2 4'</u> | <u>6</u> |
| <u>9:10am</u> | | | | <u>CSW-1</u> | <u>7</u> |
| <u>9:15am</u> | | | | <u>CSW-2</u> | <u>8</u> |
| <u>9:20am</u> | | | | <u>CSW-3</u> | <u>9</u> |
| <u>9:25am</u> | | | | <u>CSW-4</u> | <u>10</u> |

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.
 Sampled by: Dominick Gonzales

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

| | | | | | |
|---|------------------------|---------------------|---|------------------------|---------------------|
| Relinquished by: (Signature) <u>Dom Bynum</u> | Date <u>3/10/23</u> | Time <u>1200</u> | Received by: (Signature) <u>Micelle Gonzales</u> | Date <u>3-10-23</u> | Time <u>1200</u> |
| Relinquished by: (Signature) <u>Micelle Gonzales</u> | Date <u>3-10-23</u> | Time <u>1630</u> | Received by: (Signature) <u>Frederic Lee</u> | Date <u>3-10-23</u> | Time <u>1800</u> |
| Relinquished by: (Signature) <u>Frederic Lee</u> | Date <u>3-10-23</u> | Time <u>2400</u> | Received by: (Signature) <u>Cathy Carter</u> | Date <u>3/13/23</u> | Time <u>8:45</u> |

Lab Use Only
 Received on ice: Y N
 T1: _____ T2: _____ T3: _____
 AVG Temp °C 4

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: 3/13/2023 10:02:22AM

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: | 03/13/23 08:45 | Work Order ID: | E303039 |
| Phone: | (575) 631-6977 | Date Logged In: | 03/10/23 13:50 | Logged In By: | Alexa Michaels |
| Email: | tom@pimaoil.com | Due Date: | 03/17/23 17:00 (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

10Mar16

To: Heather Patterson, New Mexico Oil Conservation Division, District II
Amber Groves, New Mexico State Land Office
Reference: Remediation Work Plan
Operator: Devon Energy Production Company
Location: Cottontail 16 St Com #1H
API: 30-015-42321
Legals: UL. O, Sec. 16, T25S, R29E
GPS: 32.1230 -103.9866
2RP-3554

Site Information

This site is located in rural Eddy County, New Mexico approximately 8.6 miles southeast of Malaga, New Mexico and five miles east of New Mexico Highway 285. The area is sparsely vegetated, very rocky, and hilly ground. The Eddy County Depth to groundwater Map indicates depth to groundwater to be 150'-175'. The New Mexico Office of the State Engineer's website list no groundwater data for this area. There are no know water wells or surface bodies of water within 1,000' of this location. This location has a site ranking score of "0".

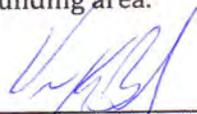
This release of produced water and oil was due to a flow line rupture. The release was on a hillside and was contained by a "berm/wall" of the adjacent location to the east and to the south. The impacted area is an "L" shaped area off the edge of the caliche pad. The impacted area is roughly 80'x60'. A vacuum truck was used at the time of discovery to recover the free standing fluid.

Work Conducted to Date

A delineation was conducted using a backhoe. Soil samples were obtained from four sample points. Laboratory analysis was conducted for Chlorides, TPH, and BTEX. (See attached spread sheet and lab report.) Both hydrocarbons and chlorides are contaminants of concern for this release. However, lab results and field test indicate the impact to be limited to the top three feet of soil.

Remediation Proposal

With Chlorides being the primary contaminant of concern for this release, I propose to use the dig and haul method for the remediation. The impacted area at sample points #1 and #3 will be excavated to a depth of 1' BGS. The impacted area at sample point #4 will be excavated to a depth of 3' BGS. No work is required at sample point #2. Upon completion of the excavation, all impacted soil will be transported to a division approved facility for disposal. Fresh material will be used for backfill. The area will be brought back to grade and contoured to match the surrounding area.



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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised August 8, 2011

FEB 15 2016

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

RECEIVED

Release Notification and Corrective Action

NAB1604739873

OPERATOR

Initial Report Final Report

| | | |
|---|---------------------|--|
| Name of Company Devon Energy Production <i>0137</i> | | Contact Leonard Aguilar Production Assistant Foreman |
| Address 6488 Seven Rivers Hwy Artesia, NM 88220 | | Telephone No. 575.513.1930 |
| Facility Name Cottontail 16 State Com 1H | | Facility Type Oil |
| Surface Owner State | Mineral Owner State | API No. 30-015-42321 |

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|---------------|-----------------|--------------|----------------------|-------------------------|-----------------------|-----------------------|----------------|
| Unit Letter O | Section 16 | Township 25S | Range 29E | Feet from the 150 | North/South Line FSL | Feet from the 1950 | East/West Line FEL | County Eddy |
|------------------|---------------|-----------------|--------------|----------------------|-------------------------|-----------------------|-----------------------|----------------|

Latitude: 32.1230205 Longitude: -103.9866708

NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release Spill Produced water & oil | Volume of Release 48 BBL Produced water 5 BBL oil | Volume Recovered 45 BBL produced water 5 BBL oil |
| Source of Release Flow line ruptured | Date and Hour of Occurrence 2/11/16 @ 2:30 pm | Date and Hour of Discovery 2/11/16 @ 2:30 pm |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Mike Bratcher -OCD | |
| By Whom? Leonard Aguilar Production Assistant Foreman | Date and Hour 2/11/16 @ 7:58 pm | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse N/A | |

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*
A flow line ruptured causing a spill. Lease operator shut off electronic submersible pump and closed valves to prevent further release. The flow line has been repaired.

Describe Area Affected and Cleanup Action Taken.*
A flow line ruptured causing a release of approximately 48 BBL of produced water and 5 BBL of oil. The spill occurred off pad in a 60' x 15' area on the northeast side of the Cooter 16 State Com 5H well pad. A vacuum truck recovered approximately 45 BBL of produced water and 5 BBL of oil. An environmental agency will be called out for remediation.

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>Jeanette Barron</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Jeanette Barron | Approved by Environmental Specialist: <i>[Signature]</i> | |
| Title: Field Admin Support | Approval Date: <i>2/16/16</i> | Expiration Date: <i>N/A</i> |
| E-mail Address: Jeanette.barron@dvn.com | Conditions of Approval: | |
| Date: 2/15/16 Phone: 575.748.1813 | Attached <input type="checkbox"/> | |

* Attach Additional Sheets If Necessary

2RP-3554

Devon Energy Production Company-Cottontail 16 St Comm #1H

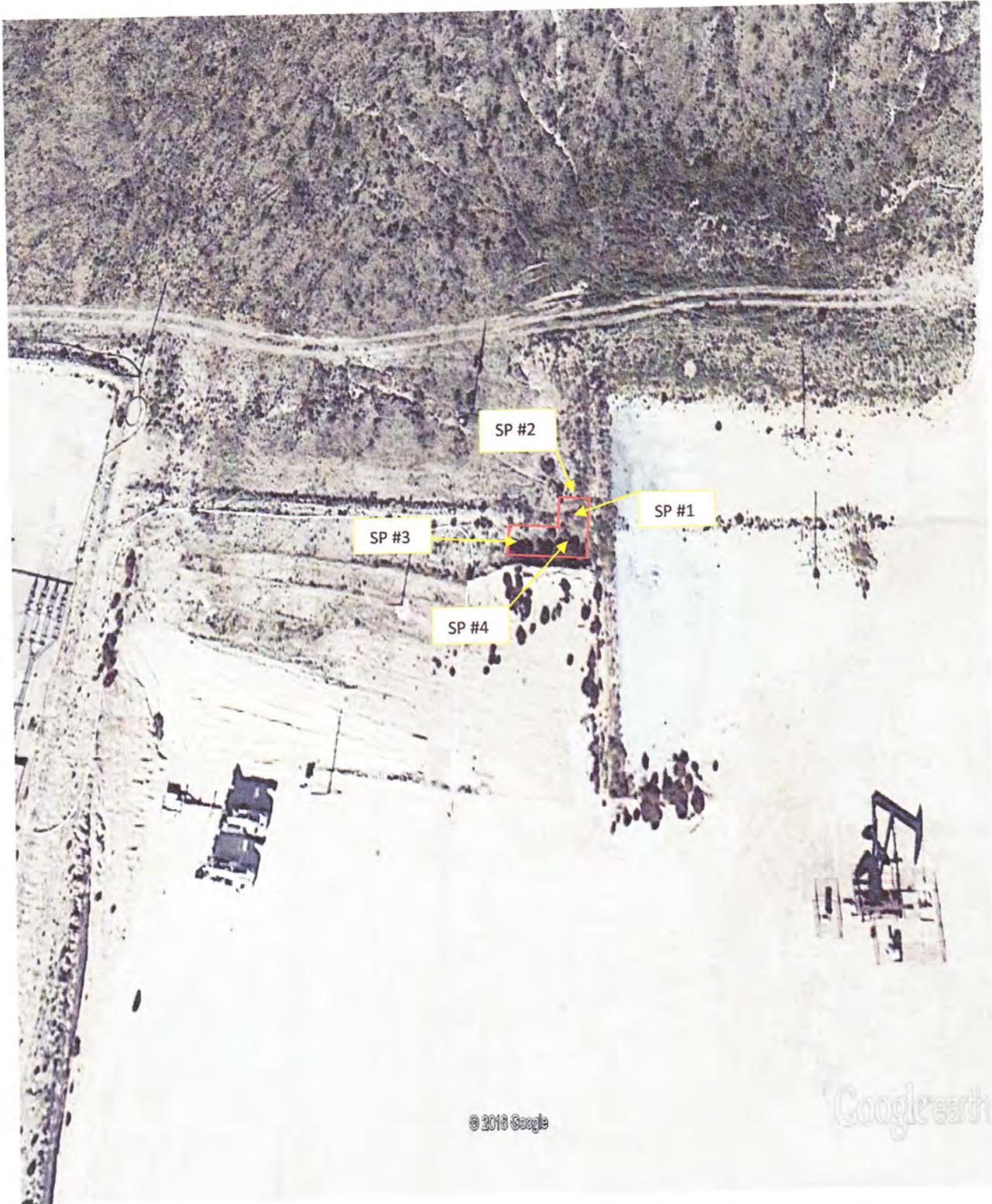


Devon Energy Production Company-Cottontail 16 St Com #1H



Impacted area noted with  .

Devon Energy Production Company-Cottontail 16 St Comm #1H



Overhead with Sample Points

Analytical Summary

Operator: Devon Energy Production Company

Location: Coattontail 16 St Com 1H

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

BTEX

| Sample Point | Depth | LAB |
|--------------|---------|-------|
| SP #1 | Surface | 1,520 |
| | 3' BGS | 0.868 |
| | 5' BGS | ND |
| SP #2 | Surface | ND |
| | 2' BGS | ND |
| SP #3 | Surface | 49 |
| | 2' BGS | 1.7 |
| SP #4 | Surface | 767 |
| | 2' BGS | 258 |
| | 4' BGS | ND |

Chlorides

| Sample Point | Depth | LAB | Field Test |
|--------------|---------|--------|------------|
| SP #1 | Surface | 8,530 | 11,371 |
| | 3' BGS | 32 | ND |
| | 5' BGS | 64 | ND |
| SP #2 | Surface | ND | ND |
| | 2' BGS | ND | ND |
| SP #3 | Surface | 23,200 | 12,898 |
| | 2' BGS | 736 | 775 |
| SP #4 | Surface | 12,500 | 9,200 |
| | 2' BGS | 6,660 | 4,034 |
| | 4' BGS | 32 | ND |

TPH

| Sample Point | Depth | LAB |
|--------------|---------|--------------|
| SP #1 | Surface | 9,200/21,100 |
| | 3' BGS | ND |
| | 5' BGS | ND/38 |
| SP #2 | Surface | ND |
| | 2' BGS | ND |
| SP #3 | Surface | 874/15,100 |
| | 2' BGS | ND/156 |
| SP #4 | Surface | 7,490/13,500 |
| | 2' BGS | 4,070/12,400 |
| | 4' BGS | ND |



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

March 01, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: COTTONTAIL

Enclosed are the results of analyses for samples received by the laboratory on 02/24/16 8:30.

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,

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 SURFACE (H600409-01)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | 58.3 | 5.00 | 03/01/2016 | ND | 1.97 | 98.4 | 2.00 | 5.85 | | |
| Toluene* | 501 | 5.00 | 03/01/2016 | ND | 1.93 | 96.5 | 2.00 | 6.07 | | |
| Ethylbenzene* | 125 | 5.00 | 03/01/2016 | ND | 1.76 | 88.1 | 2.00 | 5.87 | | |
| Total Xylenes* | 839 | 15.0 | 03/01/2016 | ND | 5.37 | 89.5 | 6.00 | 5.48 | | |
| Total BTEX | 1520 | 30.0 | 03/01/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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 | 8530 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 9200 | 50.0 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | | |
| DRO >C10-C28 | 21100 | 50.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | | |

Surrogate: 1-Chlorooctane 286 % 35-147

Surrogate: 1-Chlorooctadecane 413 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 3' (H600409-02)

| 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 | 02/25/2016 | ND | 1.97 | 98.4 | 2.00 | 5.85 | |
| Toluene* | 0.223 | 0.050 | 02/25/2016 | ND | 1.93 | 96.5 | 2.00 | 6.07 | |
| Ethylbenzene* | 0.151 | 0.050 | 02/25/2016 | ND | 1.76 | 88.1 | 2.00 | 5.87 | |
| Total Xylenes* | 0.493 | 0.150 | 02/25/2016 | ND | 5.37 | 89.5 | 6.00 | 5.48 | |
| Total BTEX | 0.868 | 0.300 | 02/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.9 % 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 | 32.0 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | |

| 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 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | |

Surrogate: 1-Chlorooctane 90.3 % 35-147

Surrogate: 1-Chlorooctadecane 98.4 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 5' (H600409-03)

| 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 | 02/25/2016 | ND | 1.97 | 98.4 | 2.00 | 5.85 | |
| Toluene* | <0.050 | 0.050 | 02/25/2016 | ND | 1.93 | 96.5 | 2.00 | 6.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2016 | ND | 1.76 | 88.1 | 2.00 | 5.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2016 | ND | 5.37 | 89.5 | 6.00 | 5.48 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 98.7 % 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 | 64.0 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | |

| 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 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | |
| DRO >C10-C28 | 38.4 | 10.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | |

Surrogate: 1-Chlorooctane 99.5 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 SURFACE (H600409-04)

| 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 | 02/25/2016 | ND | 1.97 | 98.4 | 2.00 | 5.85 | |
| Toluene* | 0.112 | 0.050 | 02/25/2016 | ND | 1.93 | 96.5 | 2.00 | 6.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2016 | ND | 1.76 | 88.1 | 2.00 | 5.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2016 | ND | 5.37 | 89.5 | 6.00 | 5.48 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.2 % 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 | <16.0 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | |

| 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 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | |

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 95.8 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 2' (H600409-05)

| 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 | 02/25/2016 | ND | 1.97 | 98.4 | 2.00 | 5.85 | |
| Toluene* | 0.066 | 0.050 | 02/25/2016 | ND | 1.93 | 96.5 | 2.00 | 6.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2016 | ND | 1.76 | 88.1 | 2.00 | 5.87 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2016 | ND | 5.37 | 89.5 | 6.00 | 5.48 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 98.5 % 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 | <16.0 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | |

| 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 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | |

Surrogate: 1-Chlorooctane 92.5 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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.

Celestine 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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 3 SURFACE (H600409-06)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.857 | 0.500 | 02/25/2016 | ND | 1.97 | 98.4 | 2.00 | 5.85 | |
| Toluene* | 9.94 | 0.500 | 02/25/2016 | ND | 1.93 | 96.5 | 2.00 | 6.07 | |
| Ethylbenzene* | 4.36 | 0.500 | 02/25/2016 | ND | 1.76 | 88.1 | 2.00 | 5.87 | |
| Total Xylenes* | 33.4 | 1.50 | 02/25/2016 | ND | 5.37 | 89.5 | 6.00 | 5.48 | |
| Total BTEX | 48.6 | 3.00 | 02/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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 | 23200 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 874 | 50.0 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | |
| DRO >C10-C28 | 15100 | 50.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | |

Surrogate: 1-Chlorooctane 203 % 35-147

Surrogate: 1-Chlorooctadecane 381 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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.

Caley 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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 3 2' (H600409-07)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | 0.180 | 0.050 | 02/25/2016 | ND | 1.94 | 97.1 | 2.00 | 1.27 | | |
| Toluene* | 0.643 | 0.050 | 02/25/2016 | ND | 1.90 | 95.2 | 2.00 | 1.75 | | |
| Ethylbenzene* | 0.113 | 0.050 | 02/25/2016 | ND | 1.74 | 87.0 | 2.00 | 1.71 | | |
| Total Xylenes* | 0.748 | 0.150 | 02/25/2016 | ND | 5.33 | 88.8 | 6.00 | 1.06 | | |
| Total BTEX | 1.68 | 0.300 | 02/25/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 98.6 % 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 | 736 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | | |

| 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 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | | |
| DRO >C10-C28 | 156 | 10.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | | |

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 4 SURFACE (H600409-08)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | 30.8 | 5.00 | 02/25/2016 | ND | 1.94 | 97.1 | 2.00 | 1.27 | | |
| Toluene* | 273 | 5.00 | 02/25/2016 | ND | 1.90 | 95.2 | 2.00 | 1.75 | | |
| Ethylbenzene* | 59.1 | 5.00 | 02/25/2016 | ND | 1.74 | 87.0 | 2.00 | 1.71 | | |
| Total Xylenes* | 404 | 15.0 | 02/25/2016 | ND | 5.33 | 88.8 | 6.00 | 1.06 | | |
| Total BTEX | 767 | 30.0 | 02/25/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 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 | 12500 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | | |
|------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | 7490 | 50.0 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | | |
| DRO >C10-C28 | 13500 | 50.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | | |

Surrogate: 1-Chlorooctane 231 % 35-147

Surrogate: 1-Chlorooctadecane 283 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 4 2' (H600409-09)

| BTEX 8021B | | mg/kg | | Analyzed By: MS | | | | | |
|-----------------------|-------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 6.96 | 2.00 | 02/25/2016 | ND | 1.94 | 97.1 | 2.00 | 1.27 | |
| Toluene* | 78.6 | 2.00 | 02/25/2016 | ND | 1.90 | 95.2 | 2.00 | 1.75 | |
| Ethylbenzene* | 21.7 | 2.00 | 02/25/2016 | ND | 1.74 | 87.0 | 2.00 | 1.71 | |
| Total Xylenes* | 151 | 6.00 | 02/25/2016 | ND | 5.33 | 88.8 | 6.00 | 1.06 | |
| Total BTEX | 258 | 12.0 | 02/25/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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 | 6660 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 4070 | 50.0 | 02/24/2016 | ND | 200 | 99.9 | 200 | 3.16 | |
| DRO >C10-C28 | 12400 | 50.0 | 02/24/2016 | ND | 213 | 106 | 200 | 4.56 | |

Surrogate: 1-Chlorooctane 203 % 35-147

Surrogate: 1-Chlorooctadecane 284 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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: 02/24/2016
 Reported: 03/01/2016
 Project Name: COTTONTAIL
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

Sampling Date: 02/23/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 4 4' (H600409-10)

| 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 | 02/25/2016 | ND | 1.94 | 97.1 | 2.00 | 1.27 | | |
| Toluene* | 0.215 | 0.050 | 02/25/2016 | ND | 1.90 | 95.2 | 2.00 | 1.75 | | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2016 | ND | 1.74 | 87.0 | 2.00 | 1.71 | | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2016 | ND | 5.33 | 88.8 | 6.00 | 1.06 | | |
| Total BTEX | <0.300 | 0.300 | 02/25/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 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 | 32.0 | 16.0 | 02/25/2016 | ND | 416 | 104 | 400 | 7.41 | | |

| 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 | 02/25/2016 | ND | 208 | 104 | 200 | 3.32 | | |
| DRO >C10-C28 | <10.0 | 10.0 | 02/25/2016 | ND | 224 | 112 | 200 | 3.37 | | |

Surrogate: 1-Chlorooctane 97.3 % 35-147

Surrogate: 1-Chlorooctadecane 80.3 % 28-171

*=Accredited Analyte

Cardinal Laboratories

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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

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

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: Hungry Horse LLC
 Project Manager: Devon K. Albrecht
 Address: 1512 E. 1st St.
 City: 4th St State: NM Zip: 88240
 Phone #: _____ Fax #: 505 393-4533
 Project #: _____ Project Owner: Devon
 Project Name: Cotton Tail
 Project Location: Eddy Co. NM
 Sampler Name: _____

BILL TO

P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

ANALYSIS REQUEST

| Lab I.D. | Sample I.D. | # CONTAINERS (GIRAB OR LID/COMP) | MATRIX | | | | | PRESERV | SAMPLING | DATE | TIME | Chlorides | VTEX | TPH |
|----------|-------------|-------------------------------------|-------------|------------|------|------|----------|---------|----------|------|------|-----------|------|-----|
| | | | GROUNDWATER | WASTEWATER | SOIL | PILE | MUD/SILT | | | | | | | |
| H600409 | | | | | | | | | 2-23-16 | 1:00 | X | X | X | |
| 1 | SP1 surface | | | | | | | | | 1:10 | | | | |
| 2 | SP1 3' | | | | | | | | | 1:20 | | | | |
| 3 | SP1 5' | | | | | | | | | 1:30 | | | | |
| 4 | SP2 surface | | | | | | | | | 1:40 | | | | |
| 5 | SP2 2' | | | | | | | | | 1:50 | | | | |
| 6 | SP3 surface | | | | | | | | | 2:10 | | | | |
| 7 | SP3 2' | | | | | | | | | 2:15 | | | | |
| 8 | SP4 surface | | | | | | | | | 2:30 | | | | |
| 9 | SP4 2' | | | | | | | | | 2:45 | | | | |
| 10 | SP4 4' | | | | | | | | | | | | | |

PLEASE NOTE: Cardinal and Overseas. Cardinal's facility and field equipment comply with any state, state or federal laws or regulations in effect at the time of sampling. Cardinal will not be held liable for any damage to the equipment or samples caused by the customer's negligence or misuse of the equipment. Cardinal is not responsible for any damage to the equipment or samples caused by the customer's negligence or misuse of the equipment. Cardinal is not responsible for any damage to the equipment or samples caused by the customer's negligence or misuse of the equipment.

Relinquished By: Abelardo Best Date: 2-24-16 Time: 8:30
 Received By: Jodi Benson
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____
 Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Yes No Intact Yes No
 CHECKED BY: [Signature]

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: _____

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 198999

CONDITIONS

| | |
|--|---|
| Operator: RAYBAW Operating, LLC 2626 Cole Avenue Dallas, TX 75204 | OGRID: 330220 |
| | Action Number: 198999 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| bhall | Closure approved. Site will need to meet the requirements of 19.15.29.13 NMAC. | 5/24/2023 |