

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2113931748
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Spur Energy Partners LLC	OGRID	328947
Contact Name	Braidy Moulder	Contact Telephone	713-264-2517
Contact email	bmoulder@spurepllc.com	Incident # (assigned by OCD)	nAPP2113931748
Contact mailing address	2407 Pecos Avenue, Artesia, NM 88210		

### Location of Release Source

Latitude 32.792843 Longitude 103.731364  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Jon-Bob #001 WATER TRANSFER LINE	Site Type	Production
Date Release Discovered	5/15/2021	API# (if applicable)	30-025-24973

Unit Letter	Section	Township	Range	County
H	35	17S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 47	Volume Recovered (bbls) 27
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A water transfer line ruptured. The release impacted the pasture with overspray. Vacuum trucks were immediately dispatched to recover all standing fluids.

State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? This release was greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? A notification was sent by Braidy Moulder (SPUR) to Robert Hamlet and Mike Bratcher (OCD) via email on 5/16/2021 at 12:17P.M.	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  <div style="height: 40px;"></div>	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Dakota Neel</u>  Signature: <u></u>  email: <u>dneel@spurepllc.com</u>	Title: <u>HSE Coordinator</u>  Date: <u>5/28/2021</u>  Telephone: <u>832-849-7837</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	

Incident ID	
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## Remediation Plan

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

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

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

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

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

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

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

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature:  Date: \_\_\_\_\_

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Printed Name: <u>Dakota Neel</u> Signature: <u></u> email: <u>dneel@spurepllc.com</u>	Title: <u>HSE Coordinator</u> Date: <u>5/28/2021</u> Telephone: <u>832-849-7837</u>
<b><u>OCD Only</u></b> Received by: <u>Ramona Marcus</u> Date: <u>7/14/2021</u>	



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

July 12, 2021

NMOCD District 1  
Mr. Chad Hensley  
1625 N. French Drive  
Hobbs, NM 88240

**Re: Work Plan Report**  
**Jon Bob #1**  
**API No. 30-025-24973**  
**GPS: Latitude 32.7964058      Longitude -103.7295532**  
**UL "A", Sec. 35, T17S, R32E**  
**Lea County, NM**  
**NMOCD Incident. No. NAPP2113931748**

Dear Mr. Hensley,

Pima Environmental Services, LLC (Pima) has been contracted by Spur Energy Partners LLC (Spur) to perform a spill assessment and to submit a work plan for approved remediation activities on the open release that occurred at the Jon Bob #1 (Jon Bob). For this incident, the initial C-141 was submitted on 6-11-2021 and was assigned Incident ID NAPP2113931748, by the New Mexico Oil Conservation Division (NMOCD).

See Appendix C for Initial C-141.

#### **Site Characterization**

The Jon Bob is located approximately thirty-five (35) miles west of Hobbs, NM. This spill site is in Unit A, Section 35, Township 17S, Range 32E, Latitude 32.792843, Longitude -103.731364, Lea County, NM. Figure 4 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Quaternary Formation Eolian and piedmont deposits (Holocene to middle Pleistocene)-interlayered eolian sands and piedmont-slope deposits (QEP). The soil in this area is made up of Berino loamy fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present in the area of the Jon Bob (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 240 feet below grade surface (BGS) located 2910 meters away. The nearest surface water is located 1.60 miles to the northwest. 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
240'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
<50	600 mg/kg	100 mg/kg	100 mg/kg	50 mg/kg	10mg/kg
If the release occurred within any of the following areas, the responsible party would treat the release as if the groundwater was less than 50 feet per Rule 19.15.29					
Water Issues				Yes	No
Within <b>300</b> feet of any continuously flowing watercourse or any other significant watercourse					x
Within <b>200</b> feet of any lakebed, sinkhole or playa lake (measures from the ordinary high-water mark					x
Within <b>300</b> feet from an occupied permanent residence, school, hospital, institution or church					x
Within <b>500</b> feet of a spring or a private, domestic freshwater well used by less than five households for domestic or stock water purposes					x
Within <b>1000</b> feet of any freshwater well or spring					x
Within incorporated municipal boundaries or within a defined municipal freshwater well field					x
Within <b>300</b> feet of a wetlands					x
Within the area overlying a subsurface mine					x
Within an unstable area (Karst)					x
Within a 100-year floodplain					x

Reference Figure 2 for a TOPO Map.

### **Release Information**

On May 15, 2021, a leak was discovered coming from the Jon Bob #1 flowline. Upon further investigation the flowline appeared to have been damaged by a vehicle driving over the poly line. The released fluids were calculated to be approximately 47 barrels (bbls) of produced water. A vacuum truck was dispatched and was able to recover approximately 27 bbls.

### **Site Assessment and Soil Sampling Results**

On May 17, 2021, Pima Environmental mobilized to the site to conduct a site assessment and obtain soil samples with a hand auger. Upon first look, there are some visual staining from the release. We sampled based on the noticeable staining and wet areas from the spill. The laboratory results of this sampling event can be found in the following data table.

## 7-29-20 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC								
Spur Energy - Jon Bob #001 Depth to Groundwater <50'								
Sample Date 5-17-21		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"	34.4	0.592	319	8760	1940	11019	11500
	1'	ND	ND	ND	ND	ND	ND	48
S-2	0-6"	93.9	5.48	1060	12700	2720	16480	17200
	1'	ND	ND	ND	ND	ND	ND	1280
	2'						—	15600
	3'						—	1520
S-3	0-6"	41.4	1.7	556	15400	3440	19396	13800
	1'	ND	ND	ND	ND	ND	ND	64
S-4	0-6"	86.7	2.87	1520	29900	6850	38270	12600
	1'	ND	ND	ND	ND	ND	ND	6130
	2'						—	384
S-5	0-6"	245	16.7	3330	27300	5950	36580	8130
	1'	ND	ND	ND	104	15.8	119.8	4080
	2'			ND	21	ND	21	1250
	3'						—	2160
S-6	0-6"	ND	ND	ND	343	80.6	423.6	17600
	1'			ND	ND	ND	ND	7460
	2'						—	22800
	3'						—	448
S-01	0-6"	ND	ND	ND	ND	ND	ND	16
S-02	0-6"	ND	ND	ND	ND	ND	ND	32
S-03	0-6"	ND	ND	ND	ND	ND	ND	16
S-04	0-6"	ND	ND	ND	ND	ND	ND	16

ND- Analyte Not Detected

Complete Laboratory Reports are attached in Appendix D.

### Proposed Site Remediation

Pima proposes that the contaminated areas from the releases and from our sampling event that exceed NMAC Closure Criteria be remediated through excavation dig and haul using mechanical equipment as well as in-situ and ex-situ bioremediation.

- The area in the vicinity of S-2 and S-5 will be a dig and haul, and we will use MMX as a sub-contractor to work on this area of the spill and rebuild the road; a calculated volume of material to dig and haul is 875 cu/yd.
- For the pasture, we will in-situ and ex-situ bioremediate utilizing 2 of our chemicals. A calculated volume of material to be treated is 842 cu/yd:
  - o SA-1000 will be used to treat the Chlorides.
  - o Soil Rx will be used to treat the hydrocarbons.
- This will be a 2-step process consisting of treating and tilling repeated 3-times to ensure the chemical bonds to the soils.
- Sidewall and bottom confirmation samples will be obtained to ensure we have removed to replace or treat all contaminated materials. Each composite sample will be representative of no more than 200 square feet.
- The material will be machine compacted and contoured back in place to match the surrounding area.
- Sixty (60) days after the chemical has been applied, Pima will retest the areas that have been treated. Results from this sampling event will be inserted into the closure report and submitted at that time.



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

Respectfully,



Chris Jones  
Environmental Professional  
Pima Environmental Services, LLC  
1601 N. Turner St. Ste 500  
Hobbs, NM 88240

### **Attachments**

Figures:

- 1- Site Map
- 2- TOPO Map
- 3- Karst Map
- 4- Location Map

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- Soil Survey
- Appendix C- Initial C-141
- Appendix D- Laboratory Reports



Pima Environmental Services

Figures:

- 1-Site Map
- 2- TOPO Map
- 3- Karst Map
- 4- Location Map

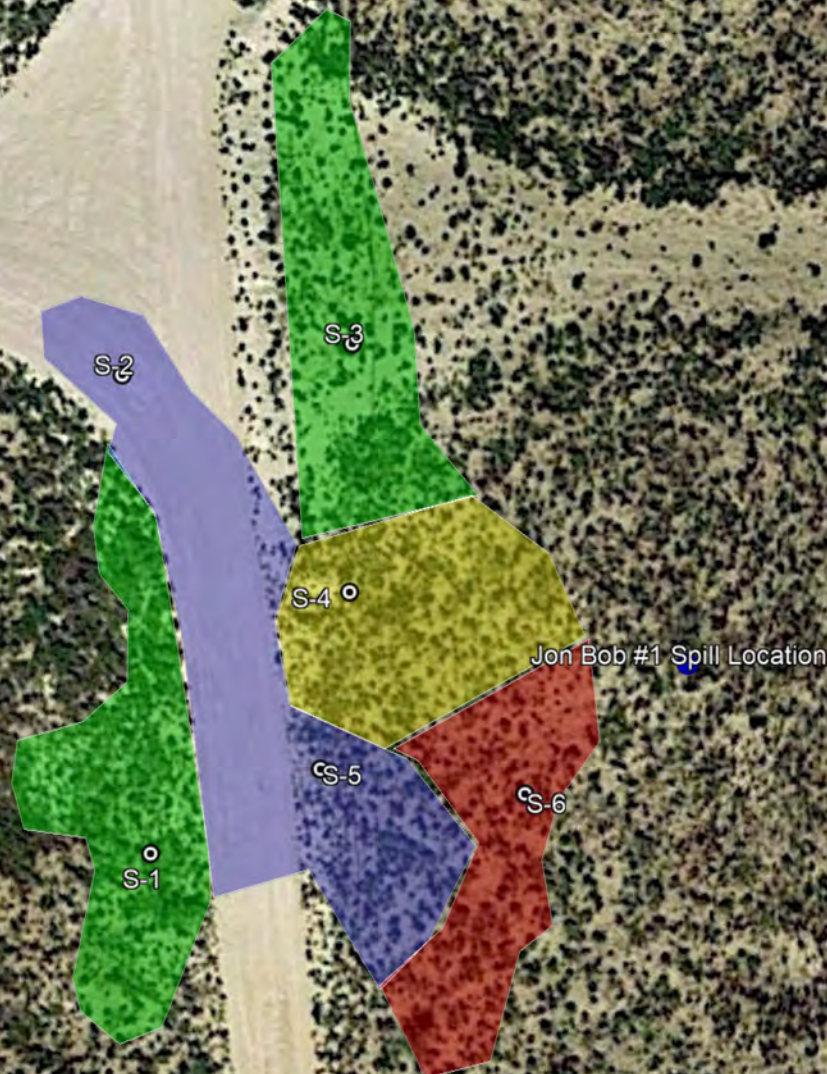


# Spur Energy

Jon Bob #1 Spill Location  
API #30-025-24973  
Lea County, NM  
Treatment Depth Map

## Legend

- 1'
- 2'
- 3'
- 4'
- Jon Bob #1 Spill Location
- Samples



Jon Bob #1 Spill Location

S-2

S-3

S-4

S-5

S-6

S-1



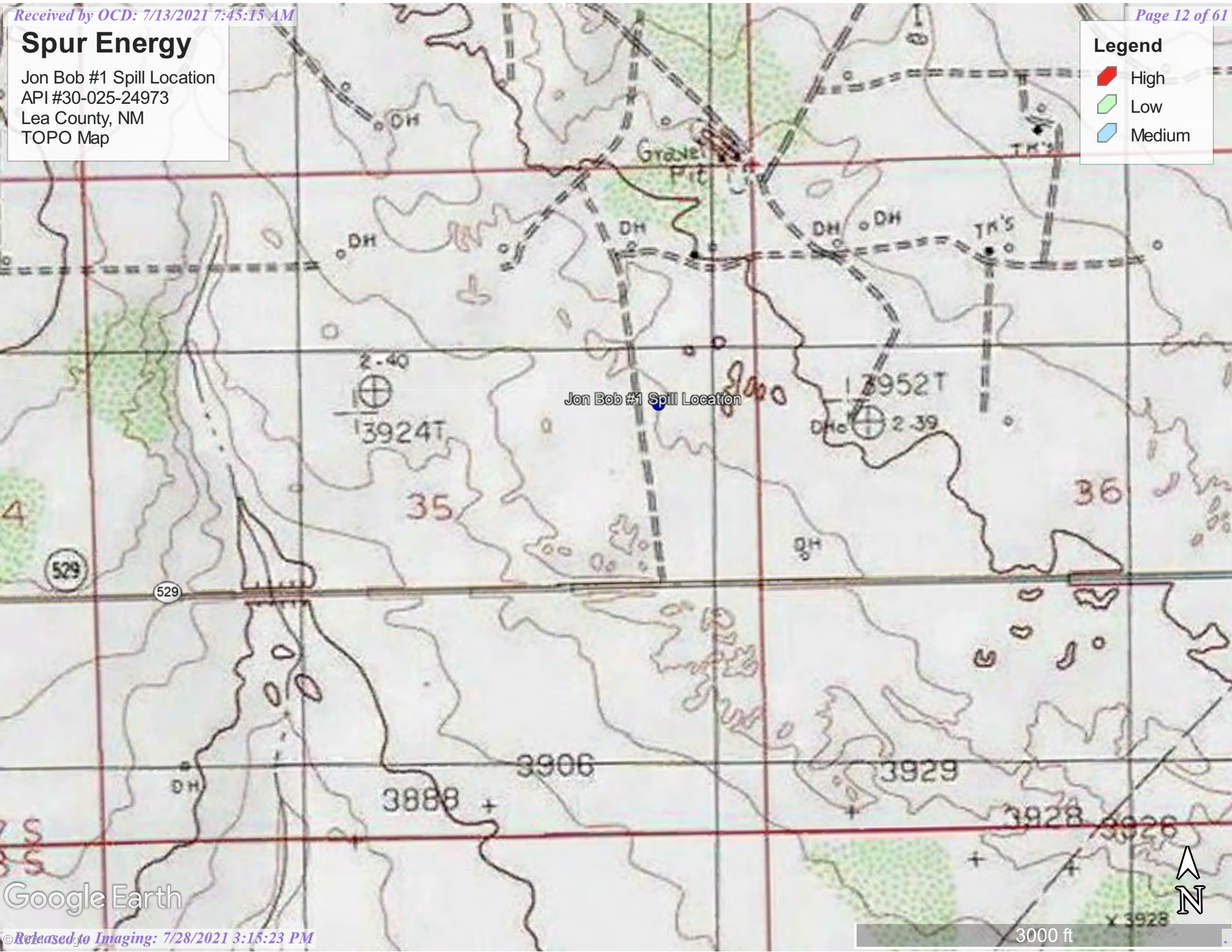
100 ft



# Spur Energy

Jon Bob #1 Spill Location  
API #30-025-24973  
Lea County, NM  
TOPO Map

- Legend**
- High
  - Low
  - Medium



Google Earth

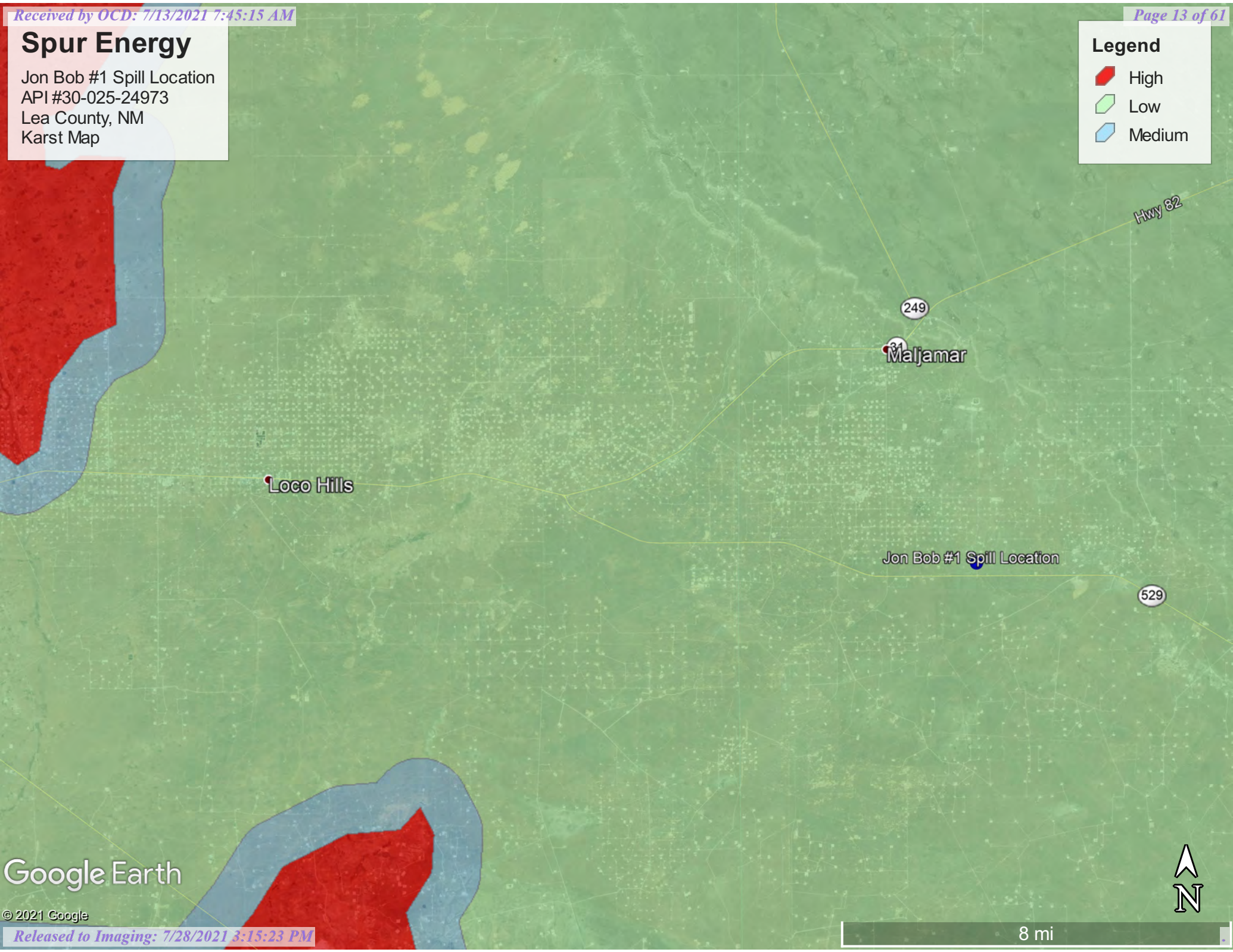


# Spur Energy

Jon Bob #1 Spill Location  
API #30-025-24973  
Lea County, NM  
Karst Map

## Legend

- High
- Low
- Medium



Google Earth

© 2021 Google

8 mi



# Spur Energy

Jon Bob #1 Spill Location  
API #30-025-24973  
Lea County, NM  
Location Map

## Legend

- High
- Low
- Medium

Jon Bob #1 Spill Location

529

Hwy 82

82

S-4 W. Co



8 mi

Google Earth





Pima Environmental Services

Appendix A  
Water Surveys:

OSE  
Surface Water Map



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

(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	Depth	Well	Depth	Water	Column
<a href="#">L_13909</a> <a href="#">POD1</a>		L	LE	4	1	4	31	17S	33E	621735	3628514	2910		240		240	0

**Average Depth to Water: 240 feet**

Minimum Depth: **240 feet**

Maximum Depth: **240 feet**

Record Count: 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 618875.989

**Northing (Y):** 3629062.528

**Radius:** 3000

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.

5/20/21 10:33 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER





# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
L	13909 POD1	4	1	4	31	17S	33E	621735	3628514

x

**Driller License:** 1044 **Driller Company:** EADES WELL DRILLING & PUMP SERVICE

**Driller Name:** ALLAN EADES

**Drill Start Date:** 07/09/2015

**Drill Finish Date:** 07/09/2015

**Plug Date:**

**Log File Date:** 08/17/2015

**PCW Rev Date:**

**Source:** Shallow

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:**

**Casing Size:** 5.14

**Depth Well:** 240 feet

**Depth Water:** 240 feet

x

### Water Bearing Stratifications:

Top	Bottom	Description
100	119	Sandstone/Gravel/Conglomerate
122	219	Sandstone/Gravel/Conglomerate
219	240	Sandstone/Gravel/Conglomerate

x

### Casing Perforations:

Top	Bottom
200	240

x

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5/20/21 10:34 AM

POINT OF DIVERSION SUMMARY



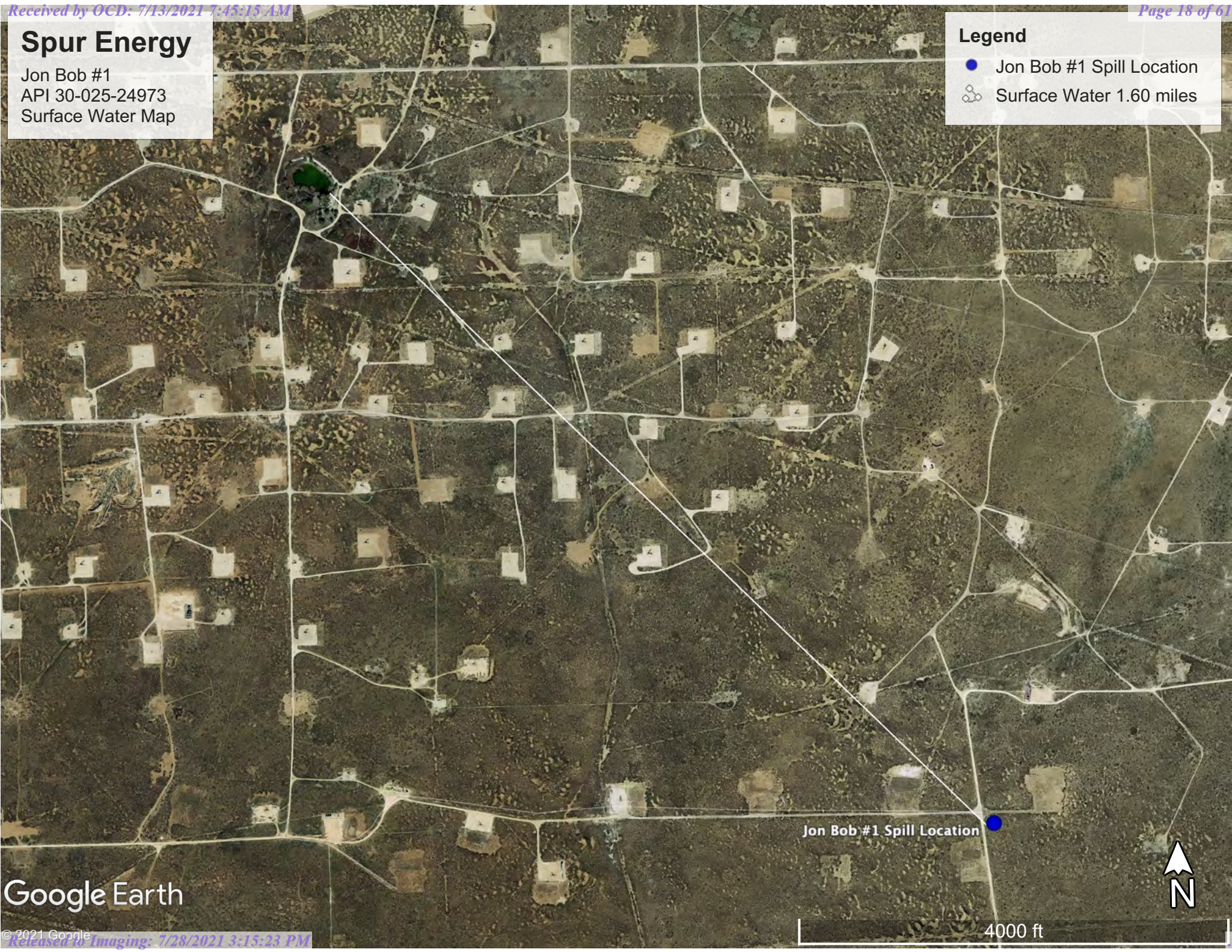
# Spur Energy

Jon Bob #1  
API 30-025-24973  
Surface Water Map

Legend

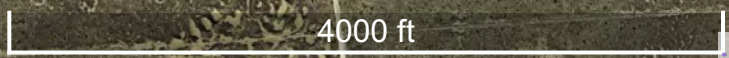
Jon Bob #1 Spill Location

Surface Water 1.60 miles



Google Earth

Jon Bob #1 Spill Location







Pima Environmental Services

Appendix B:

Soil Survey

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

---

## Lea County, New Mexico

### PU—Pyote and Maljamar fine sands

#### Map Unit Setting

*National map unit symbol:* dmqq

*Elevation:* 3,000 to 3,900 feet

*Mean annual precipitation:* 10 to 12 inches

*Mean annual air temperature:* 60 to 62 degrees F

*Frost-free period:* 190 to 205 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Pyote and similar soils:* 46 percent

*Maljamar and similar soils:* 44 percent

*Minor components:* 10 percent

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

#### Description of Pyote

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 30 inches:* fine sand

*Bt - 30 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water capacity:* Low (about 5.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e



Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

---

*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: A*  
*Ecological site: R042XC003NM - Loamy Sand*  
*Hydric soil rating: No*

## **Description of Maljamar**

### **Setting**

*Landform: Plains*  
*Landform position (three-dimensional): Rise*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: Sandy eolian deposits derived from sedimentary rock*

### **Typical profile**

*A - 0 to 24 inches: fine sand*  
*Bt - 24 to 50 inches: sandy clay loam*  
*Bkm - 50 to 60 inches: cemented material*

### **Properties and qualities**

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 40 to 60 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*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: 5 percent*  
*Gypsum, maximum content: 1 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 2.0*  
*Available water capacity: Low (about 5.6 inches)*

### **Interpretive groups**

*Land capability classification (irrigated): 6e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R042XC003NM - Loamy Sand*  
*Hydric soil rating: No*

## **Minor Components**

### **Kermit**

*Percent of map unit: 10 percent*  
*Ecological site: R042XC022NM - Sandhills*

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 17, Jun 8, 2020



Pima Environmental Services

Appendix C:

C-141

Initial



Pima Environmental Services

Appendix D:  
Laboratory Results



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

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May 27, 2021

CHRIS JONES

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: JON BOB #1

Enclosed are the results of analyses for samples received by the laboratory on 05/17/21 14:55.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S 1 - SURFACE	H211274-01	Soil	17-May-21 00:00	17-May-21 14:55
S 1 - 1'	H211274-02	Soil	17-May-21 00:00	17-May-21 14:55
S 2 - SURFACE	H211274-05	Soil	17-May-21 00:00	17-May-21 14:55
S 2 - 1'	H211274-06	Soil	17-May-21 00:00	17-May-21 14:55
S 2 - 2'	H211274-07	Soil	17-May-21 00:00	17-May-21 14:55
S 2 - 3'	H211274-08	Soil	17-May-21 00:00	17-May-21 14:55
S 3 - SURFACE	H211274-09	Soil	17-May-21 00:00	17-May-21 14:55
S 3 - 1'	H211274-10	Soil	17-May-21 00:00	17-May-21 14:55
S 4 - SURFACE	H211274-13	Soil	17-May-21 00:00	17-May-21 14:55
S 4 - 1'	H211274-14	Soil	17-May-21 00:00	17-May-21 14:55
S 4 - 2'	H211274-15	Soil	17-May-21 00:00	17-May-21 14:55
S 5 - SURFACE	H211274-17	Soil	17-May-21 00:00	17-May-21 14:55
S 5 - 1'	H211274-18	Soil	17-May-21 00:00	17-May-21 14:55
S 5 - 2'	H211274-19	Soil	17-May-21 00:00	17-May-21 14:55
S 5 - 3'	H211274-20	Soil	17-May-21 00:00	17-May-21 14:55
S 6 - SURFACE	H211274-21	Soil	17-May-21 00:00	17-May-21 14:55
S 6 - 1'	H211274-22	Soil	17-May-21 00:00	17-May-21 14:55
S 6 - 2'	H211274-23	Soil	17-May-21 00:00	17-May-21 14:55
S 6 - 3'	H211274-24	Soil	17-May-21 00:00	17-May-21 14:55
01 - ( 0-6" )	H211274-25	Soil	17-May-21 00:00	17-May-21 14:55
02 - ( 0-6" )	H211274-26	Soil	17-May-21 00:00	17-May-21 14:55
03 - ( 0-6" )	H211274-27	Soil	17-May-21 00:00	17-May-21 14:55
04 - ( 0-6" )	H211274-28	Soil	17-May-21 00:00	17-May-21 14:55

05/27/21 - Project name was changed as per the client. This is the revised report and will replace the one sent on 05/26/21.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 1 - SURFACE**  
**H211274-01 (Soil)**

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

<b>Chloride</b>	<b>11500</b>		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

<b>Benzene*</b>	<b>0.592</b>		0.050	mg/kg	50	1051812	MS	19-May-21	8021B	
<b>Toluene*</b>	<b>4.26</b>		0.050	mg/kg	50	1051812	MS	19-May-21	8021B	
<b>Ethylbenzene*</b>	<b>9.63</b>		0.050	mg/kg	50	1051812	MS	19-May-21	8021B	
<b>Total Xylenes*</b>	<b>19.9</b>		0.150	mg/kg	50	1051812	MS	19-May-21	8021B	
<b>Total BTEX</b>	<b>34.4</b>		0.300	mg/kg	50	1051812	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 177 % 69.9-140 1051812 MS 19-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>319</b>		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>8760</b>		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1940</b>		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	

Surrogate: 1-Chlorooctane 144 % 44.3-133 1051805 MS 18-May-21 8015B

Surrogate: 1-Chlorooctadecane 303 % 38.9-142 1051805 MS 18-May-21 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 1 - 1'**  
**H211274-02 (Soil)**

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

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	1052014	AC	21-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051923	MS	20-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051923	MS	20-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	69.9-140		1051923	MS	20-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.3 %	44.3-133		1052002	MS	20-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.4 %	38.9-142		1052002	MS	20-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 2 - SURFACE****H211274-05 (Soil)**

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

Chloride	17200		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	5.48		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Toluene*	19.8		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Ethylbenzene*	25.2		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Total Xylenes*	43.4		1.50	mg/kg	500	1051812	MS	18-May-21	8021B	
Total BTEX	93.9		3.00	mg/kg	500	1051812	MS	18-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	132 %		69.9-140			1051812	MS	18-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	1060		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	12700		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	2720		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	

Surrogate: 1-Chlorooctane	189 %		44.3-133			1051805	MS	18-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	375 %		38.9-142			1051805	MS	18-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 2 - 1'**  
**H211274-06 (Soil)**

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

<b>Chloride</b>	<b>1280</b>		16.0	mg/kg	4	1052014	AC	21-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051923	MS	20-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051923	MS	20-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	110 %	69.9-140	1051923	MS	20-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1052002	MS	20-May-21	8015B	

Surrogate: 1-Chlorooctane	87.2 %	44.3-133	1052002	MS	20-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	86.2 %	38.9-142	1052002	MS	20-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 2 - 2'**  
**H211274-07 (Soil)**

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

<b>Chloride</b>	<b>15600</b>		16.0	mg/kg	4	1052403	AC	24-May-21	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 2 - 3'**  
**H211274-08 (Soil)**

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

<b>Chloride</b>	<b>1520</b>		16.0	mg/kg	4	1052607	GM	26-May-21	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 3 - SURFACE****H211274-09 (Soil)**

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

Chloride	13800		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	1.70		0.100	mg/kg	100	1051812	MS	19-May-21	8021B	
Toluene*	6.70		0.100	mg/kg	100	1051812	MS	19-May-21	8021B	
Ethylbenzene*	11.7		0.100	mg/kg	100	1051812	MS	19-May-21	8021B	
Total Xylenes*	21.3		0.300	mg/kg	100	1051812	MS	19-May-21	8021B	
Total BTEX	41.4		0.600	mg/kg	100	1051812	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 204 % 69.9-140 1051812 MS 19-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	556		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	15400		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	3440		50.0	mg/kg	5	1051805	MS	18-May-21	8015B	

Surrogate: 1-Chlorooctane 172 % 44.3-133 1051805 MS 18-May-21 8015B

Surrogate: 1-Chlorooctadecane 439 % 38.9-142 1051805 MS 18-May-21 8015B

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 3 - 1'**  
**H211274-10 (Soil)**

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

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	1052014	AC	21-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051923	MS	20-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051923	MS	20-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	69.9-140		1051923	MS	20-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.2 %	44.3-133		1052002	MS	20-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.8 %	38.9-142		1052002	MS	20-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 4 - SURFACE****H211274-13 (Soil)**

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

Chloride	12600		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	2.87		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Toluene*	14.4		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Ethylbenzene*	25.1		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Total Xylenes*	44.4		1.50	mg/kg	500	1051812	MS	18-May-21	8021B	
Total BTEX	86.7		3.00	mg/kg	500	1051812	MS	18-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 140 % 69.9-140 1051812 MS 18-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	1520		100	mg/kg	10	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	29900		100	mg/kg	10	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	6850		100	mg/kg	10	1051805	MS	18-May-21	8015B	

Surrogate: 1-Chlorooctane 248 % 44.3-133 1051805 MS 18-May-21 8015B

Surrogate: 1-Chlorooctadecane 768 % 38.9-142 1051805 MS 18-May-21 8015B

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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 4 - 1'**  
**H211274-14 (Soil)**

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

<b>Chloride</b>	<b>6130</b>		16.0	mg/kg	4	1052014	AC	21-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B
Toluene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	1051923	MS	20-May-21	8021B
Total BTEX	<0.300	0.300	mg/kg	50	1051923	MS	20-May-21	8021B

Surrogate: 4-Bromofluorobenzene (PID)	110 %	69.9-140	1051923	MS	20-May-21	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052002	MS	20-May-21	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1052002	MS	20-May-21	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1052002	MS	20-May-21	8015B

Surrogate: 1-Chlorooctane	86.4 %	44.3-133	1052002	MS	20-May-21	8015B
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Surrogate: 1-Chlorooctadecane	86.9 %	38.9-142	1052002	MS	20-May-21	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 4 - 2'**  
**H211274-15 (Soil)**

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

<b>Chloride</b>	<b>384</b>		16.0	mg/kg	4	1052403	AC	24-May-21	4500-Cl-B	
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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 5 - SURFACE****H211274-17 (Soil)**

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

Chloride	8130		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	16.7		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Toluene*	52.4		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Ethylbenzene*	65.6		0.500	mg/kg	500	1051812	MS	18-May-21	8021B	
Total Xylenes*	110		1.50	mg/kg	500	1051812	MS	18-May-21	8021B	
Total BTEX	245		3.00	mg/kg	500	1051812	MS	18-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 197 % 69.9-140 1051812 MS 18-May-21 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	3330		100	mg/kg	10	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	27300		100	mg/kg	10	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	5950		100	mg/kg	10	1051805	MS	18-May-21	8015B	

Surrogate: 1-Chlorooctane 325 % 44.3-133 1051805 MS 18-May-21 8015B

Surrogate: 1-Chlorooctadecane 699 % 38.9-142 1051805 MS 18-May-21 8015B

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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 5 - 1'**  
**H211274-18 (Soil)**

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

<b>Chloride</b>	<b>4080</b>		16.0	mg/kg	4	1052014	AC	21-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Ethylbenzene*	<b>0.087</b>	0.050	mg/kg	50	1051923	MS	20-May-21	8021B	
Total Xylenes*	<b>0.197</b>	0.150	mg/kg	50	1051923	MS	20-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051923	MS	20-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	69.9-140	1051923	MS	20-May-21	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052002	MS	20-May-21	8015B
DRO >C10-C28*	<b>104</b>	10.0	mg/kg	1	1052002	MS	20-May-21	8015B
EXT DRO >C28-C36	<b>15.8</b>	10.0	mg/kg	1	1052002	MS	20-May-21	8015B

Surrogate: 1-Chlorooctane	88.6 %	44.3-133	1052002	MS	20-May-21	8015B
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Surrogate: 1-Chlorooctadecane	91.6 %	38.9-142	1052002	MS	20-May-21	8015B
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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 5 - 2'**  
**H211274-19 (Soil)**

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

<b>Chloride</b>	<b>1250</b>		16.0	mg/kg	4	1052403	AC	24-May-21	4500-Cl-B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052404	MS	24-May-21	8015B	
<b>DRO &gt;C10-C28*</b>	<b>21.0</b>		10.0	mg/kg	1	1052404	MS	24-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052404	MS	24-May-21	8015B	
Surrogate: 1-Chlorooctane			96.2 %	44.3-133		1052404	MS	24-May-21	8015B	
Surrogate: 1-Chlorooctadecane			98.0 %	38.9-142		1052404	MS	24-May-21	8015B	

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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 5 - 3'**  
**H211274-20 (Soil)**

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

<b>Chloride</b>	<b>2160</b>		16.0	mg/kg	4	1052607	GM	26-May-21	4500-Cl-B	
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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 6 - SURFACE****H211274-21 (Soil)**

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

<b>Chloride</b>	<b>17600</b>		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051812	MS	18-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051812	MS	18-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	115 %	69.9-140	1051812	MS	18-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	343	10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	80.6	10.0	mg/kg	1	1051805	MS	18-May-21	8015B	

Surrogate: 1-Chlorooctane	104 %	44.3-133	1051805	MS	18-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	111 %	38.9-142	1051805	MS	18-May-21	8015B	
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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 6 - 1'**  
**H211274-22 (Soil)**

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	7460		16.0	mg/kg	4	1052014	AC	21-May-21	4500-Cl-B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052002	MS	20-May-21	8015B	
Surrogate: 1-Chlorooctane			88.8 %	44.3-133		1052002	MS	20-May-21	8015B	
Surrogate: 1-Chlorooctadecane			89.5 %	38.9-142		1052002	MS	20-May-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 6 - 2'**  
**H211274-23 (Soil)**

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	22800		16.0	mg/kg	4	1052403	AC	24-May-21	4500-Cl-B	

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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**S 6 - 3'****H211274-24 (Soil)**

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

<b>Chloride</b>	<b>448</b>		16.0	mg/kg	4	1052607	GM	26-May-21	4500-Cl-B	
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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**01 - ( 0-6" )****H211274-25 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051812	MS	18-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051812	MS	18-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		69.9-140	1051812	MS	18-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051805	MS	18-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %		44.3-133	1051805	MS	18-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		38.9-142	1051805	MS	18-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**02 - ( 0-6" )****H211274-26 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B
Toluene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	1051812	MS	18-May-21	8021B
Total BTEX	<0.300	0.300	mg/kg	50	1051812	MS	18-May-21	8021B

Surrogate: 4-Bromofluorobenzene (PID)	111 %	69.9-140	1051812	MS	18-May-21	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051805	MS	18-May-21	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051805	MS	18-May-21	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051805	MS	18-May-21	8015B

Surrogate: 1-Chlorooctane	99.8 %	44.3-133	1051805	MS	18-May-21	8015B
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Surrogate: 1-Chlorooctadecane	98.4 %	38.9-142	1051805	MS	18-May-21	8015B
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**03 - ( 0-6" )****H211274-27 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051812	MS	18-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051812	MS	18-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>		104 %		69.9-140	1051812	MS	18-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051805	MS	18-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>		104 %		44.3-133	1051805	MS	18-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>		103 %		38.9-142	1051805	MS	18-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**04 - ( 0-6" )****H211274-28 (Soil)**

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

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	1051816	GM	18-May-21	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051812	MS	18-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051812	MS	18-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051812	MS	18-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		1051812	MS	18-May-21	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051805	MS	18-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051805	MS	18-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.9 %	44.3-133		1051805	MS	18-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.1 %	38.9-142		1051805	MS	18-May-21	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1051816 - 1:4 DI Water****Blank (1051816-BLK1)**

Prepared &amp; Analyzed: 18-May-21

Chloride	ND	16.0	mg/kg
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**LCS (1051816-BS1)**

Prepared &amp; Analyzed: 18-May-21

Chloride	416	16.0	mg/kg	400	104	80-120
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**LCS Dup (1051816-BSD1)**

Prepared &amp; Analyzed: 18-May-21

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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**Batch 1052014 - 1:4 DI Water****Blank (1052014-BLK1)**

Prepared &amp; Analyzed: 20-May-21

Chloride	ND	16.0	mg/kg
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**LCS (1052014-BS1)**

Prepared &amp; Analyzed: 20-May-21

Chloride	400	16.0	mg/kg	400	100	80-120
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**LCS Dup (1052014-BSD1)**

Prepared &amp; Analyzed: 20-May-21

Chloride	416	16.0	mg/kg	400	104	80-120	3.92	20
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**Batch 1052403 - 1:4 DI Water****Blank (1052403-BLK1)**

Prepared &amp; Analyzed: 24-May-21

Chloride	ND	16.0	mg/kg
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**LCS (1052403-BS1)**

Prepared &amp; Analyzed: 24-May-21

Chloride	400	16.0	mg/kg	400	100	80-120
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1052403 - 1:4 DI Water****LCS Dup (1052403-BSD1)**

Prepared &amp; Analyzed: 24-May-21

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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**Batch 1052607 - 1:4 DI Water****Blank (1052607-BLK1)**

Prepared &amp; Analyzed: 26-May-21

Chloride	ND	16.0	mg/kg							
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**LCS (1052607-BS1)**

Prepared &amp; Analyzed: 26-May-21

Chloride	400	16.0	mg/kg	400		100	80-120			
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**LCS Dup (1052607-BSD1)**

Prepared &amp; Analyzed: 26-May-21

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1051812 - Volatiles****Blank (1051812-BLK1)**

Prepared &amp; Analyzed: 18-May-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0544		mg/kg	0.0500		109	69.9-140			

**LCS (1051812-BS1)**

Prepared &amp; Analyzed: 18-May-21

Benzene	1.91	0.050	mg/kg	2.00		95.3	89.9-120			
Toluene	2.13	0.050	mg/kg	2.00		106	90.8-117			
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	88.9-116			
m,p-Xylene	4.27	0.100	mg/kg	4.00		107	85.5-118			
o-Xylene	2.08	0.050	mg/kg	2.00		104	85.5-118			
Total Xylenes	6.36	0.150	mg/kg	6.00		106	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	69.9-140			

**LCS Dup (1051812-BSD1)**

Prepared &amp; Analyzed: 18-May-21

Benzene	1.94	0.050	mg/kg	2.00		97.2	89.9-120	1.95	10.3	
Toluene	2.20	0.050	mg/kg	2.00		110	90.8-117	3.16	10.5	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	88.9-116	2.49	10.8	
m,p-Xylene	4.37	0.100	mg/kg	4.00		109	85.5-118	2.30	10.7	
o-Xylene	2.12	0.050	mg/kg	2.00		106	85.5-118	1.79	10.7	
Total Xylenes	6.49	0.150	mg/kg	6.00		108	85.5-118	2.14	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0543		mg/kg	0.0500		109	69.9-140			

**Batch 1051923 - Volatiles****Blank (1051923-BLK1)**

Prepared: 19-May-21 Analyzed: 20-May-21

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1051923 - Volatiles****Blank (1051923-BLK1)**

Prepared: 19-May-21 Analyzed: 20-May-21

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0557		mg/kg	0.0500		111	69.9-140			

**LCS (1051923-BS1)**

Prepared: 19-May-21 Analyzed: 20-May-21

Benzene	1.93	0.050	mg/kg	2.00		96.3	89.9-120			
Toluene	1.95	0.050	mg/kg	2.00		97.3	90.8-117			
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.1	88.9-116			
m,p-Xylene	3.81	0.100	mg/kg	4.00		95.3	85.5-118			
o-Xylene	1.95	0.050	mg/kg	2.00		97.6	85.5-118			
Total Xylenes	5.77	0.150	mg/kg	6.00		96.1	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	69.9-140			

**LCS Dup (1051923-BS1)**

Prepared: 19-May-21 Analyzed: 20-May-21

Benzene	2.01	0.050	mg/kg	2.00		100	89.9-120	4.28	10.3	
Toluene	2.04	0.050	mg/kg	2.00		102	90.8-117	4.58	10.5	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	88.9-116	6.07	10.8	
m,p-Xylene	4.05	0.100	mg/kg	4.00		101	85.5-118	5.91	10.7	
o-Xylene	2.06	0.050	mg/kg	2.00		103	85.5-118	5.56	10.7	
Total Xylenes	6.11	0.150	mg/kg	6.00		102	85.5-118	5.79	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500		108	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1051805 - General Prep - Organics****Blank (1051805-BLK1)**

Prepared &amp; Analyzed: 18-May-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.5		mg/kg	50.0		109	44.3-133			
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	38.9-142			

**LCS (1051805-BS1)**

Prepared &amp; Analyzed: 18-May-21

GRO C6-C10	208	10.0	mg/kg	200		104	83.4-129			
DRO >C10-C28	222	10.0	mg/kg	200		111	84.3-133			
Total TPH C6-C28	430	10.0	mg/kg	400		107	85.3-130			
Surrogate: 1-Chlorooctane	57.0		mg/kg	50.0		114	44.3-133			
Surrogate: 1-Chlorooctadecane	57.8		mg/kg	50.0		116	38.9-142			

**LCS Dup (1051805-BS1)**

Prepared &amp; Analyzed: 18-May-21

GRO C6-C10	220	10.0	mg/kg	200		110	83.4-129	5.70	12.6	
DRO >C10-C28	233	10.0	mg/kg	200		117	84.3-133	5.10	12.1	
Total TPH C6-C28	454	10.0	mg/kg	400		113	85.3-130	5.39	11.6	
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	44.3-133			
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0		118	38.9-142			

**Batch 1052002 - General Prep - Organics****Blank (1052002-BLK1)**

Prepared &amp; Analyzed: 20-May-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.4		mg/kg	50.0		82.8	44.3-133			
Surrogate: 1-Chlorooctadecane	39.6		mg/kg	50.0		79.1	38.9-142			

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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1052002 - General Prep - Organics****LCS (1052002-BS1)**

Prepared &amp; Analyzed: 20-May-21

GRO C6-C10	212	10.0	mg/kg	200		106	83.4-129		
DRO >C10-C28	215	10.0	mg/kg	200		107	84.3-133		
Total TPH C6-C28	427	10.0	mg/kg	400		107	85.3-130		
Surrogate: 1-Chlorooctane	45.5		mg/kg	50.0		91.0	44.3-133		
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	38.9-142		

**LCS Dup (1052002-BSD1)**

Prepared &amp; Analyzed: 20-May-21

GRO C6-C10	219	10.0	mg/kg	200		110	83.4-129	3.37	12.6
DRO >C10-C28	224	10.0	mg/kg	200		112	84.3-133	3.95	12.1
Total TPH C6-C28	443	10.0	mg/kg	400		111	85.3-130	3.66	11.6
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	44.3-133		
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.0	38.9-142		

**Batch 1052404 - General Prep - Organics****Blank (1052404-BLK1)**

Prepared &amp; Analyzed: 24-May-21

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	44.3		mg/kg	50.0		88.6	44.3-133		
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	38.9-142		

**LCS (1052404-BS1)**

Prepared &amp; Analyzed: 24-May-21

GRO C6-C10	224	10.0	mg/kg	200		112	83.4-129		
DRO >C10-C28	234	10.0	mg/kg	200		117	84.3-133		
Total TPH C6-C28	459	10.0	mg/kg	400		115	85.3-130		
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	44.3-133		
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.9	38.9-142		

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**Analytical Results For:**

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

Project: JON BOB #1  
Project Number: NONE GIVEN  
Project Manager: CHRIS JONES  
Fax To:

Reported:  
27-May-21 11:04

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 1052404 - General Prep - Organics****LCS Dup (1052404-BSD1)**

Prepared &amp; Analyzed: 24-May-21

GRO C6-C10	222	10.0	mg/kg	200		111	83.4-129	1.02	12.6	
DRO >C10-C28	232	10.0	mg/kg	200		116	84.3-133	1.22	12.1	
Total TPH C6-C28	453	10.0	mg/kg	400		113	85.3-130	1.12	11.6	
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	44.3-133			
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.9	38.9-142			

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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **PIMA ENVIRONMENTAL**

## BILL TO

## ANALYSIS REQUEST

Project Manager: **Chris Jones**

P.O. #:

Address: **1601 N. Turner Ste 500**

Company: **SPUR**

City: **Hobbs**

State: **NM** Zip: **88240**

Attn:

Phone #:

Fax #:

Address:

Project #:

Project Owner:

City:

Project Name: **Joe Bob #1**

State:

Zip:

Project Location:

Phone #:

Sampler Name: **S.O**

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

**H211274**

		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME
1	S1-Surface	(G)	1			X							5/17/21	
2	S1-1'													
3	S1-2'													
4	S1-3'													
5	S2-Surface													
6	S2-1'													
7	S2-2'													
8	S2-3'													
9	S3-Surface													
10	S3-1'													

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Relinquished By:

Date: **5/17/21**

Received By:

Date: **5/17/21**

Relinquished By: **Chris Jones**

Date: **5/17/21**

Received By: **Spur**

Delivered By: (Circle One)

Observed Temp. °C: **25.8**

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Corrected Temp. °C:

Cool Intact

Yes ☒ No ☐

FORM-006 R-3-100004120

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

\*Project name revised as per Chris. **5/17/21**

REMARKS:

TPH: 100ppm CL: 600ppm

Standard ☒ Rush ☐

Turnaround Time:

Standard ☒ Rush ☐

Bacteria (only) Sample Condition

Cool Intact

Yes ☒ No ☐

Thermometer ID #113

Cool Intact

Yes ☒ No ☐

Corrected Temp. °C:

Corrected Temp. °C:



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Page 35 of 36





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: PIMA

Project Manager:

Address:

City:

Phone #:

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H011374

21 SC-Surface  
22 SC-1'  
23 SC-2'  
24 SC-3'  
25 01-(0-6")  
26 02-(0-6")  
27 03-(0-6")  
28 04-(0-6")

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

MATRIX

PRESERV

SAMPLING

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

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Relinquished By:

Date: 5/17/21

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date: 5/17/21

Received By:

REMARKS:

Delivered By: (Circle One)

Observed Temp. °C 28.8

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only)

Sample Condition

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Yes No

Thermometer ID #113

Correction Factor None

Yes No

Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to cately.keene@cardinallabsnm.com

**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 36120

**CONDITIONS**

Operator: Pima Environmental Services, LLC 1601 N. Turner Hobbs, NM 88240	OGRID: 329999
	Action Number: 36120
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.	7/28/2021