

Form C-141

State of New Mexico  
Oil Conservation Division

Page 6

Incident ID	nAPP2223724372
District RP	
Facility ID	
Application ID	

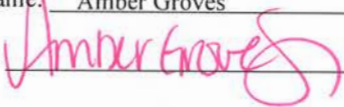
## Closure

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

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

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

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

Printed Name: Amber Groves Title: Remediation Specialist  
Signature:  Date: 10/28/2022  
email: agroves@durangomidstream.com Telephone: 575-703-7992

### OCD Only

Received by: Robert Hamlet Date: 1/12/2023

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: Robert Hamlet Date: 1/12/2023  
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



## Remediation Summary and Closure Request

**Frontier Field Services, LLC**

**Santo Nino 6"**

**Eddy County, New Mexico**

**Unit Letter "L", Section 25, Township 17 South, Range 30 East**

**Latitude 32.802947 North, Longitude 103.931421 West**

**NMOCD Incident # nAPP2223724372**

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Prepared For:

Frontier Field Services, LLC

47 Conoco Rd

Maljamar, NM 88264

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

Office: (575) 393-3386

**October 2022**

*Bradley Wells*

Bradley Wells

Project Manager

bwells@hungry-horse.com

*Daniel Dominguez*

Daniel Dominguez

Environmental Manager

ddominguez@hungry-horse.com

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Form C-141

State of New Mexico  
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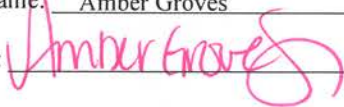
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Printed Name: Amber Groves Title: Remediation Specialist  
Signature:  Date: 10/28/2022  
email: agroves@durangomidstream.com Telephone: 575-703-7992

### OCD Only

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

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

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

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





## HUNGRY HORSE, LLC

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The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

### Background:

The site is located in Unit Letter L (NW/SW), Section 25, Township 17 South, Range 30 East, approximately three miles Southeast of Loco Hills, in Eddy County, New Mexico. The site is located on New Mexico State Trust Land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active pipeline; Latitude 32.802947 North, Longitude 103.931421 West. The Initial NMOCD Form C-141 indicated that on August 24, 2022 approximately 0.74 bbls of condensate and 60.26 Mcf of natural gas were released due to internal and external corrosion on the pipeline. A crew was dispatched to the release site and the line was repaired. No fluid was recovered. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form Initial C-141 is also included as Attachment VIII.

### NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 & 3.

No water wells were located within a half mile of the release area, therefore depth to groundwater could not be determined. Consequently, the site was delineated and further remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
undetermined	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg



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**Delineation and Remediation Activities:**

On August 29, 2022, Hungry Horse conducted an initial site assessment consisting of photographing and mapping the release area, and a series of sampling events. During the sampling events, hand augered soil bores were advanced within the release area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, hand augered soil bores were advanced along the outside edges of the release area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the soil bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, eighteen representative soil samples, two from each sample location, were selected for laboratory analysis. Delineation soil samples SP1 through SP4, HZ1 through HZ5, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of SP1 through SP4 at Surface, and SP3 at three feet bgs, which exhibited TPH and/or chloride concentrations in excess of the NMOCD Closure Criteria.

From October 4-6, 2022, the release area was excavated to approximately three to four feet bgs. Soil impacted above the NMOCD Closure Criteria was excavated and stockpiled on site, atop plastic, before transport to an NMOCD approved disposal facility.

The excavated area measured approximately one hundred feet in length, three to nineteen feet in width, and three to four feet in depth. During remediation activities approximately 72 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility. Manifests can be provided upon request.

On October 10, 2022, eight composite confirmation soil samples were collected from the excavation floor and sidewalls, every 200 square feet and every 50 linear feet, respectively. Soil samples FL1 through FL3 and SW1 through SW5, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

A Delineation Sample Map and Excavation Sample Map are provided as Figure 4 and Figure 5, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.



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**Restoration, Reclamation, and Re-Vegetation:**

Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted topsoil. The affected area was contoured and/or compacted to achieve erosion control, surface stability, and preserve surface water flow.

The affected area will be scarified to aid with infiltration, overall success of seed germination, and plant establishment. The affected area will then be seeded, via hand broadcast at double the recommended rate, with an NMSLO approved seed mixture, free of noxious weeds, during the first favorable growing season following these completed remediation activities. Site will also be monitored for growth and noxious weed management on a semi-annual basis until desired vegetation is achieved. NMSLO approved seed mix is provided as Attachment VII.

**Closure Request:**

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Frontier Field Services, LLC respectfully requests closure of the Santo Nino 6" location, nAPP2223724372.

**Limitations:**

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



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**Distribution:**

**Frontier Field Services, LLC**

47 Conoco Rd.

Maljamar, NM 88264

**New Mexico Energy, Minerals and Natural Resources Department**

Oil Conservation Division, District 2

811 S. First St.

Artesia, NM 88210

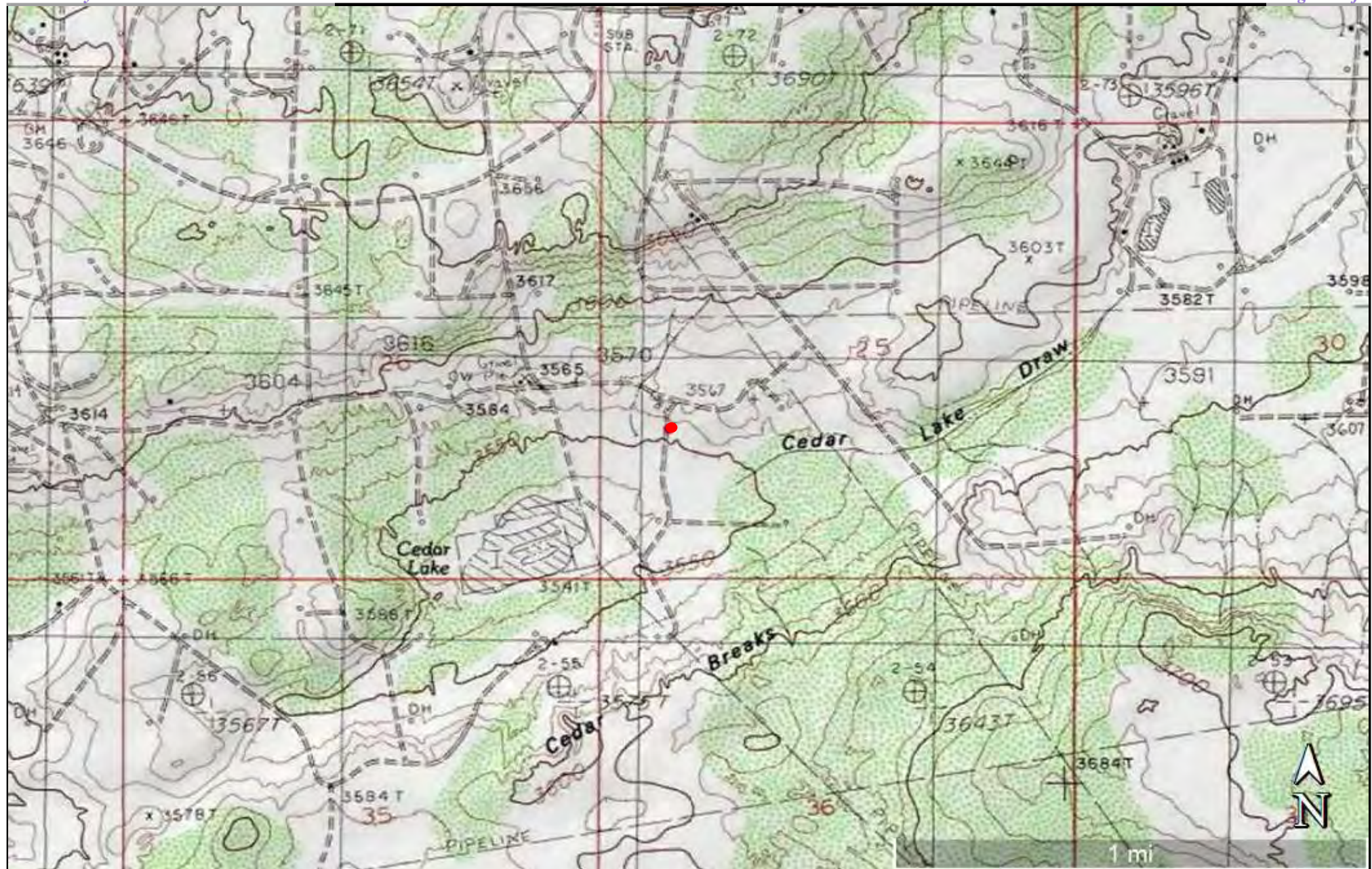
**New Mexico State Land Office**

914 N. Linam St.

Hobbs, NM 88240



## **Figures**

**Figure 1**

Topographic Map  
 Frontier Field Services, LLC  
 6" Santo Nino  
 GPS: 32.802947, -103.931421  
 Eddy County

**Legend:**

● 6" Santo Nino Location

Drafted: dd  
 Checked: bw  
 Date: 8/30/22





**Figure 2**

OSE POD Locations Map  
Frontier Field Services, LLC  
6" Santo Nino  
GPS: 32.802947, -103.931421  
Eddy County

**Legend:**

● 6" Santo Nino Location

Drafted: dd  
Checked: bw  
Date: 8/30/22





**Figure 3**

USGS Well Locations Map  
Frontier Field Services, LLC  
6" Santo Nino  
GPS: 32.802947, -103.931421  
Eddy County

**Legend:**

● 6" Santo Nino Location

Drafted: dd  
Checked: bw  
Date: 8/30/22





**Figure 4**

Delineation Sample Map  
Frontier Field Services, LLC  
6" Santo Nino  
GPS: 32.802947, -103.931421  
Eddy County

**Legend:**

- Excavated Area  
 HZ1 Delineation Sample Location

Drafted: dd  
Checked: bw  
Date: 8/30/22







**Figure 5**

Excavation Sample Map  
Frontier Field Services, LLC  
6" Santo Nino  
GPS: 32.802947, -103.931421  
Eddy County

**Legend:**

-  Excavated Area  
 Composite Confirmation Sample Location

Drafted: dd  
Checked: bw  
Date: 10/10/22



## **Table**

**TABLE 1**  
**Summary of Soil Sample Laboratory Analytical Results**  
**Frontier Field Services, LLC**  
**6" Santo Nino**  
**NMOCD Ref. #: nAPP2223724372**

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SP1	8/29/22	Surf	Excavated	0.319	24.6	262	18,100	18,362	3,510	<b>21,872</b>	144
	8/29/22	3	Excavated	<0.050	<0.300	<10.0	61.3	61.3	10.4	71.7	48.0
SP2	8/29/22	Surf	Excavated	<0.050	0.635	<100.0	14,100	14,100	3,430	<b>17,530</b>	512
	8/29/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SP3	8/29/22	Surf	Excavated	<0.050	0.587	101	16,100	16,201	4,100	<b>20,301</b>	<b>3,320</b>
	8/29/22	3	Excavated	<0.050	<0.300	<10.0	114	114	17	<b>131</b>	240
SP4	8/29/22	Surf	Excavated	<0.050	<0.300	<50.0	3,230	3,230	542	<b>3,772</b>	64.0
	8/29/22	3	In-Situ	<0.050	<0.300	<10.0	67.7	67.7	<10.0	67.7	160
HZ1	8/29/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/29/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ2	8/29/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/29/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ3	8/29/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	8/29/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ4	8/29/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	8/29/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ5	8/29/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/29/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL1	10/10/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL2	10/10/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL3	10/10/22	3	In-Situ	<0.050	<0.300	<10.0	33.0	33.0	<10.0	33.0	16.0
SW1	10/10/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW2	10/10/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3	10/10/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW4	10/10/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW5	10/10/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	-	-	<b>N/A</b>	-	<b>100</b>	<b>600</b>

**NOTES:**

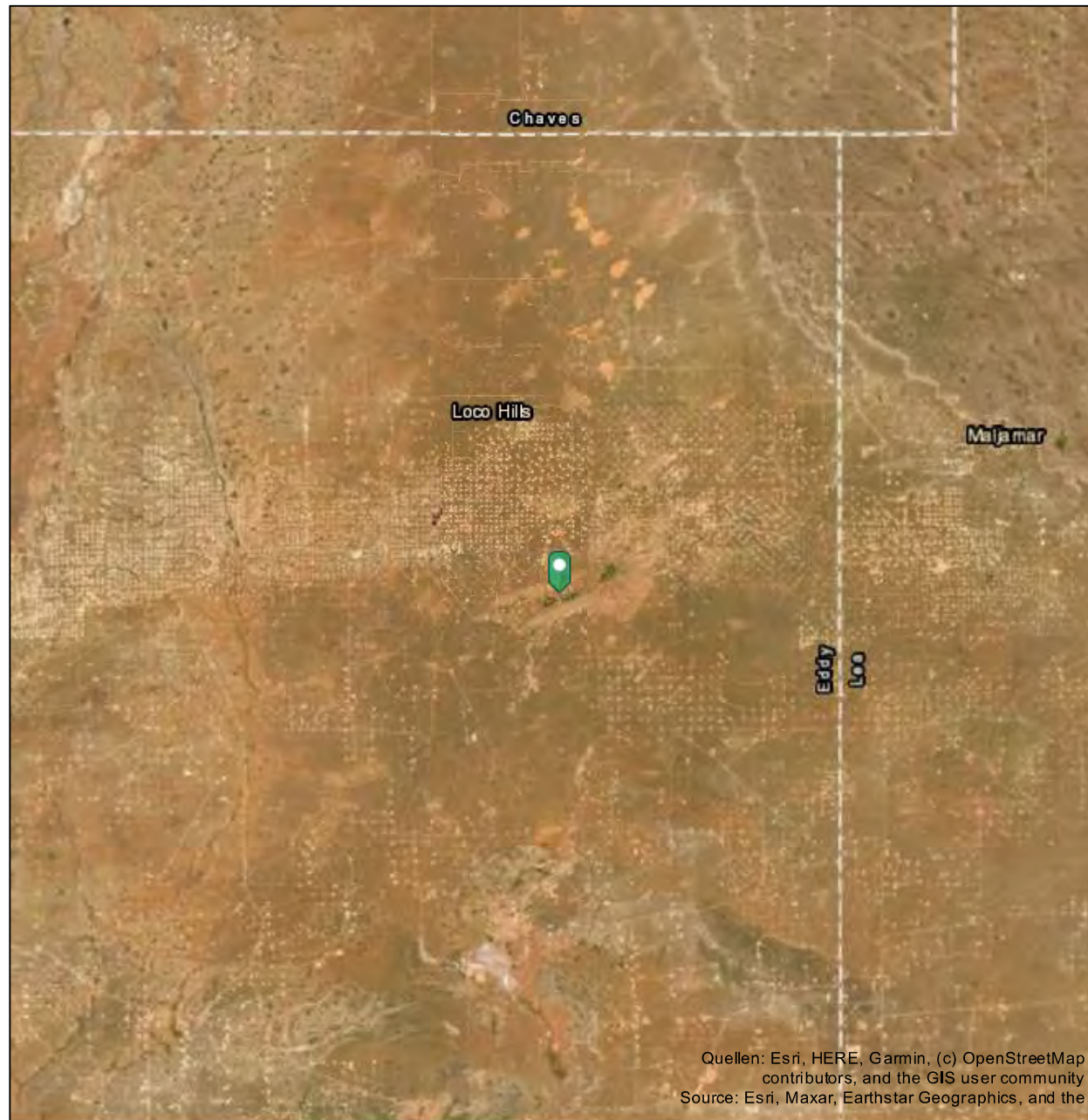
- = Sample not analyzed for that constituent.

**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria



## **Attachment I**

### **Karst and Wetland Maps**

**Karst springs**

Spring with low flow discharge  $\geq 2 \text{ m}^3/\text{s}$

Spring with low flow discharge  $< 2 \text{ m}^3/\text{s}$

Submarine spring

Thermal spring

Water abstraction structure in karst aquifer

Cave systems

Border between exposed and non-exposed karstifiable rocks

Selected city, partly dependent on groundwater

Boundary of continuous permafrost

Continuous ice sheet

Discontinuous carbonate rocks

Continuous evaporite rocks

Discontinuous evaporite rocks

Mixed carbonate and evaporite rocks

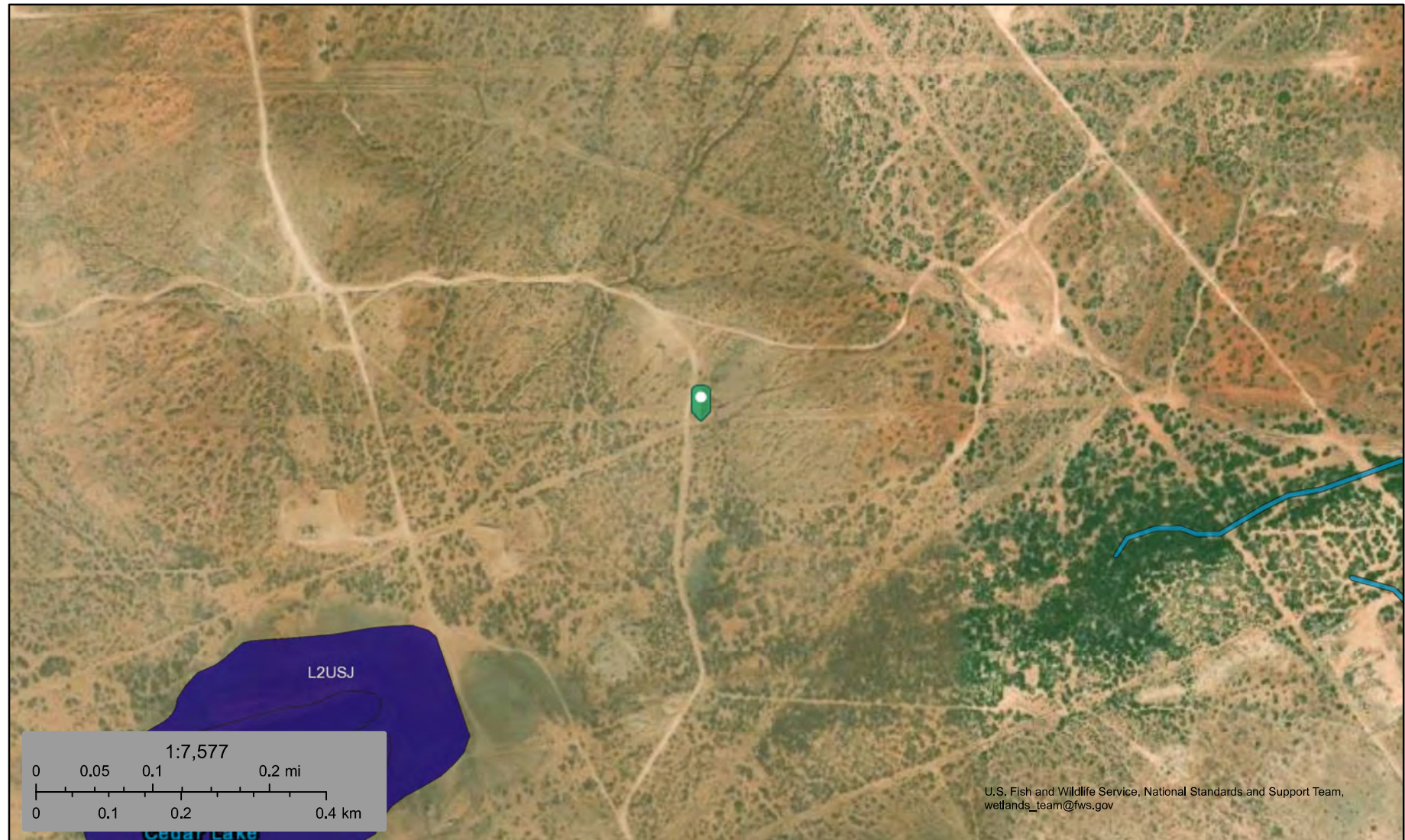
**Karstifiable rocks (potential karst aquifer)**

Continuous carbonate rocks





## Santo Nino 6"



October 21, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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

National Wetlands Inventory (NWI)  
This page was produced by the NWI mapper

## **Attachment II NMOCD Correspondence**



**Daniel Dominguez**

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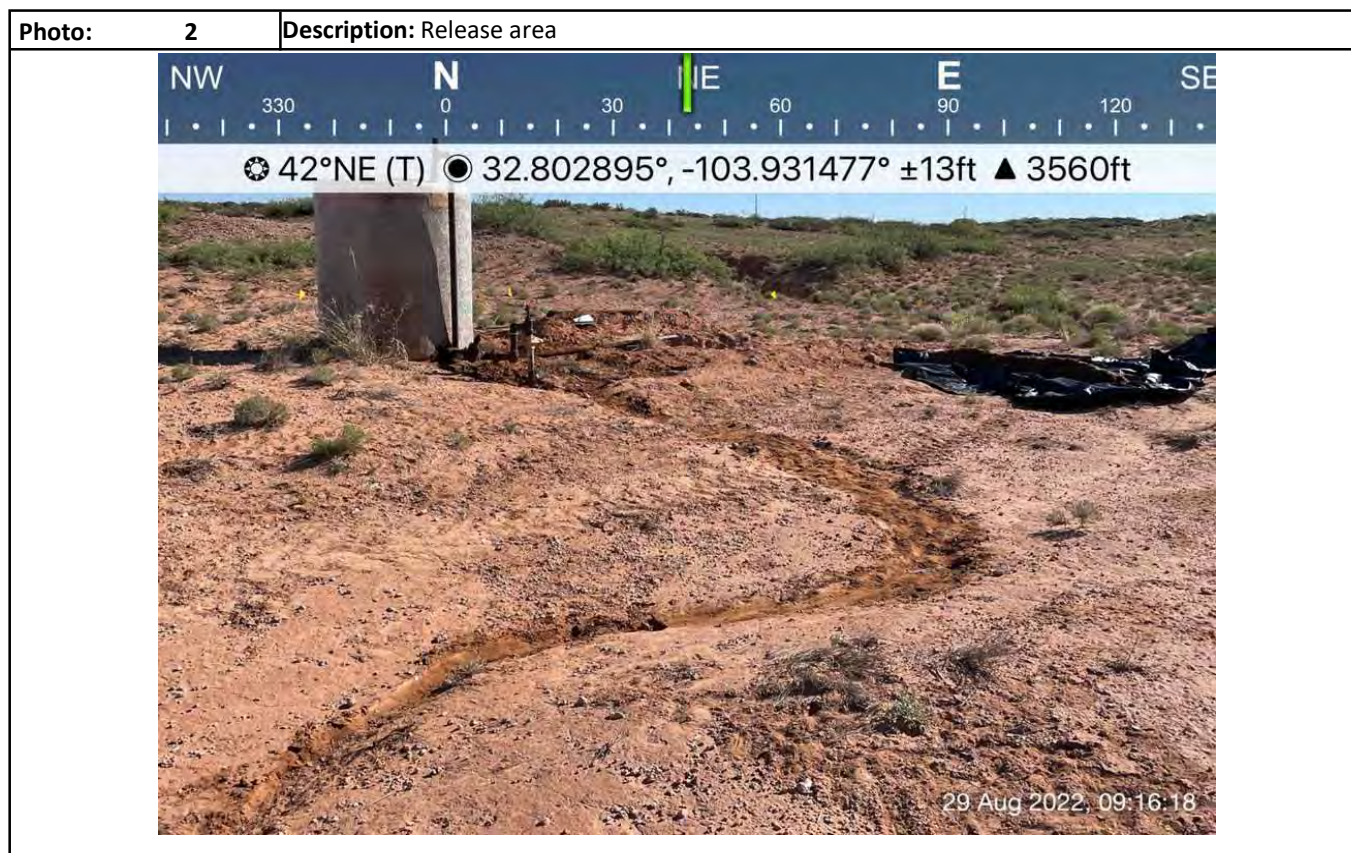
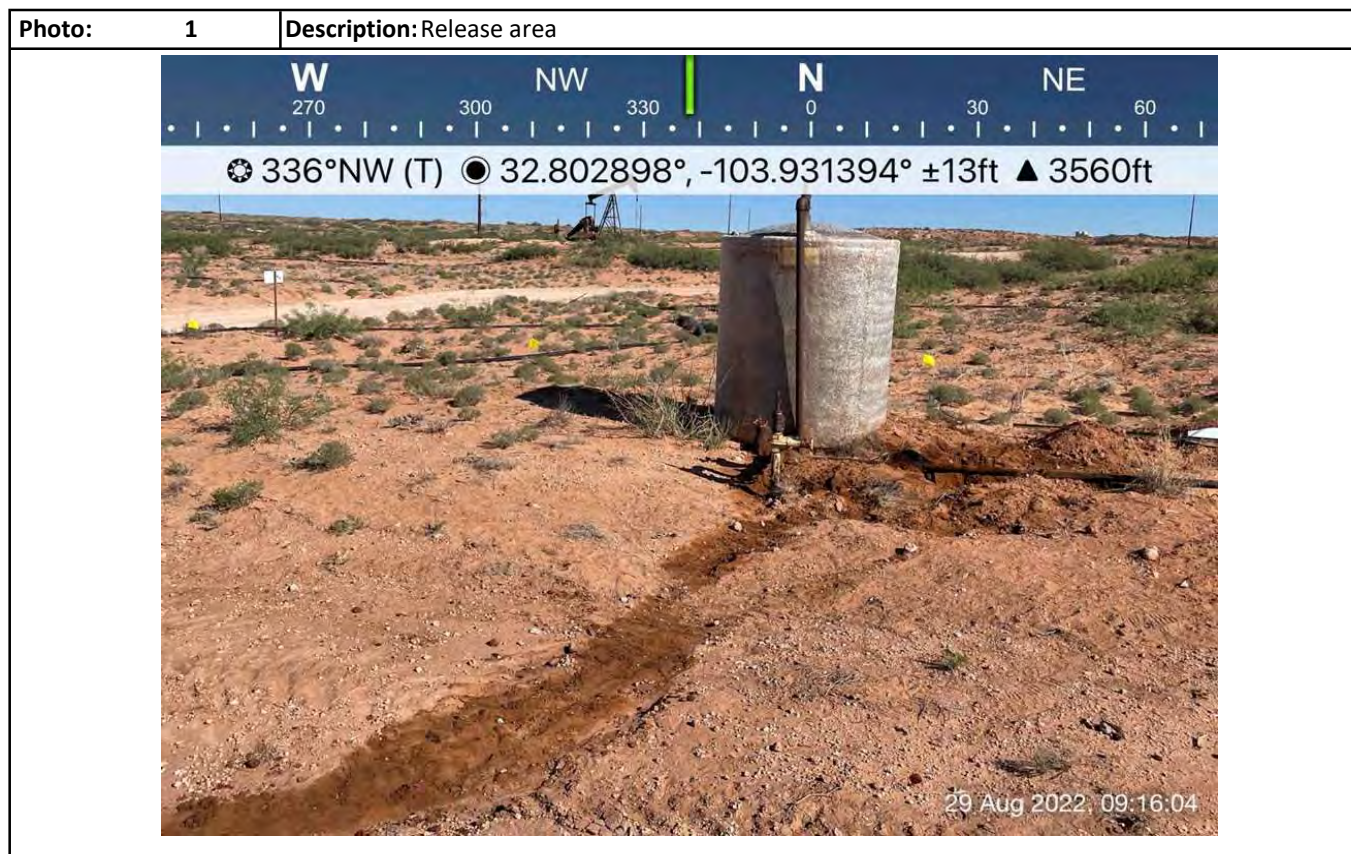
**From:** Daniel Dominguez  
**Sent:** Thursday, October 6, 2022 10:53 AM  
**To:** 'Enviro, OCD, EMNRD'  
**Subject:** Closure Samples

We will be collecting closure samples at the 6" Santo Nino (nAPP2223724372) on Monday, October 10, 2022, at 7 am. This is our 48 hour notice.

Daniel Dominguez  
Environmental Manager  
Hungry Horse, LLC  
(mobile) 575-408-3134  
ddominguez@hungry-horse.com

## **Attachment III Site Photographs**

## Photographs





## Photographs

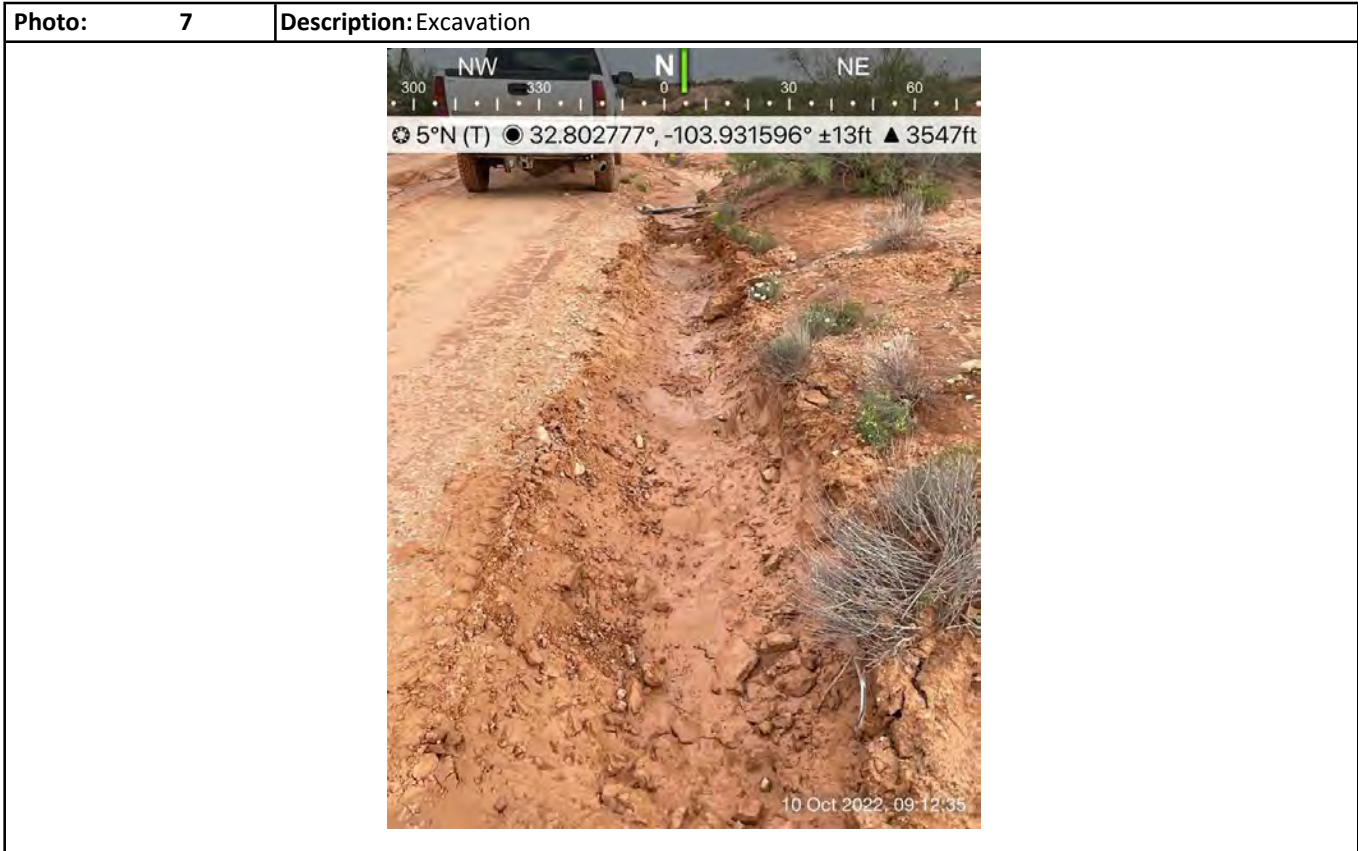




## Photographs

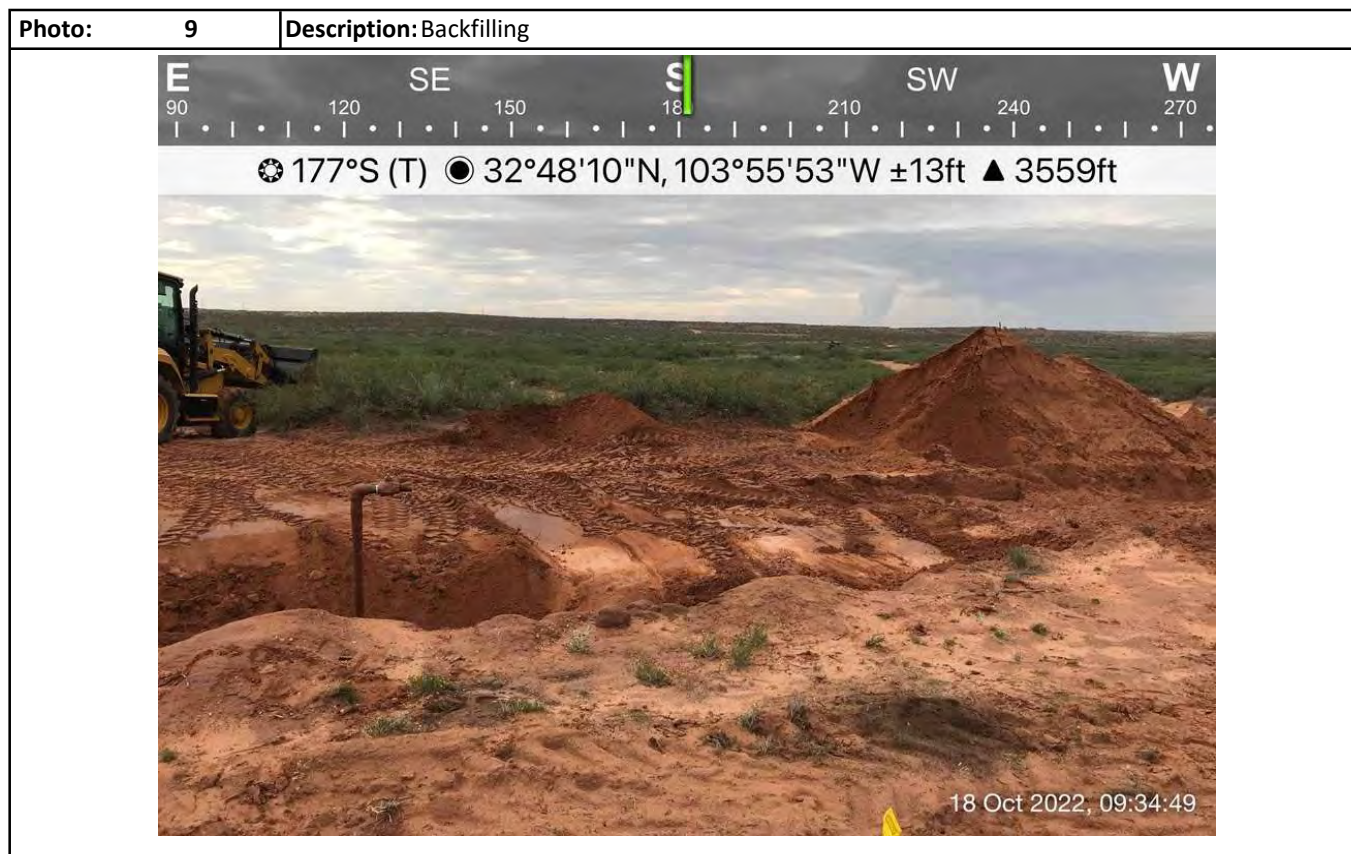


## Photographs



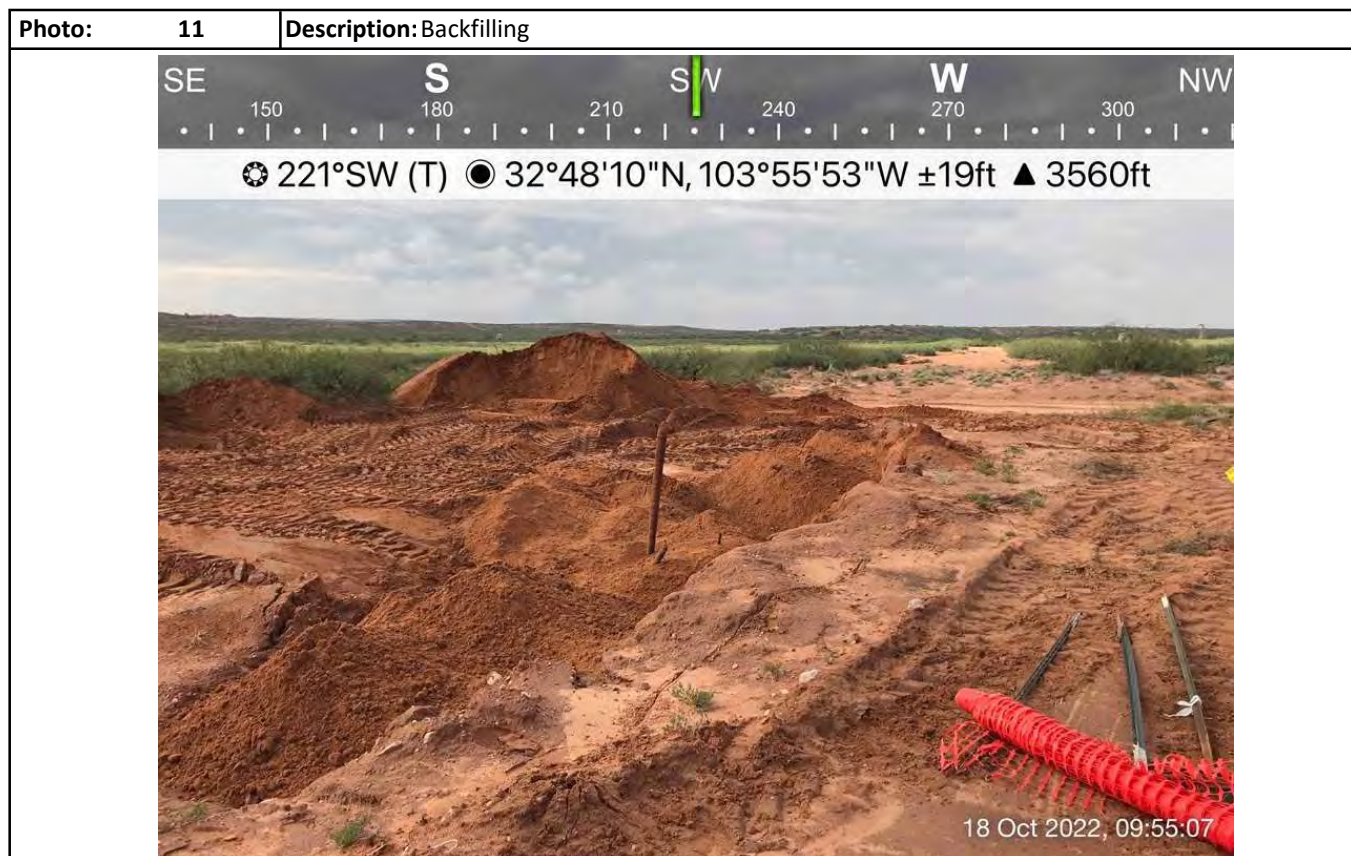


## Photographs



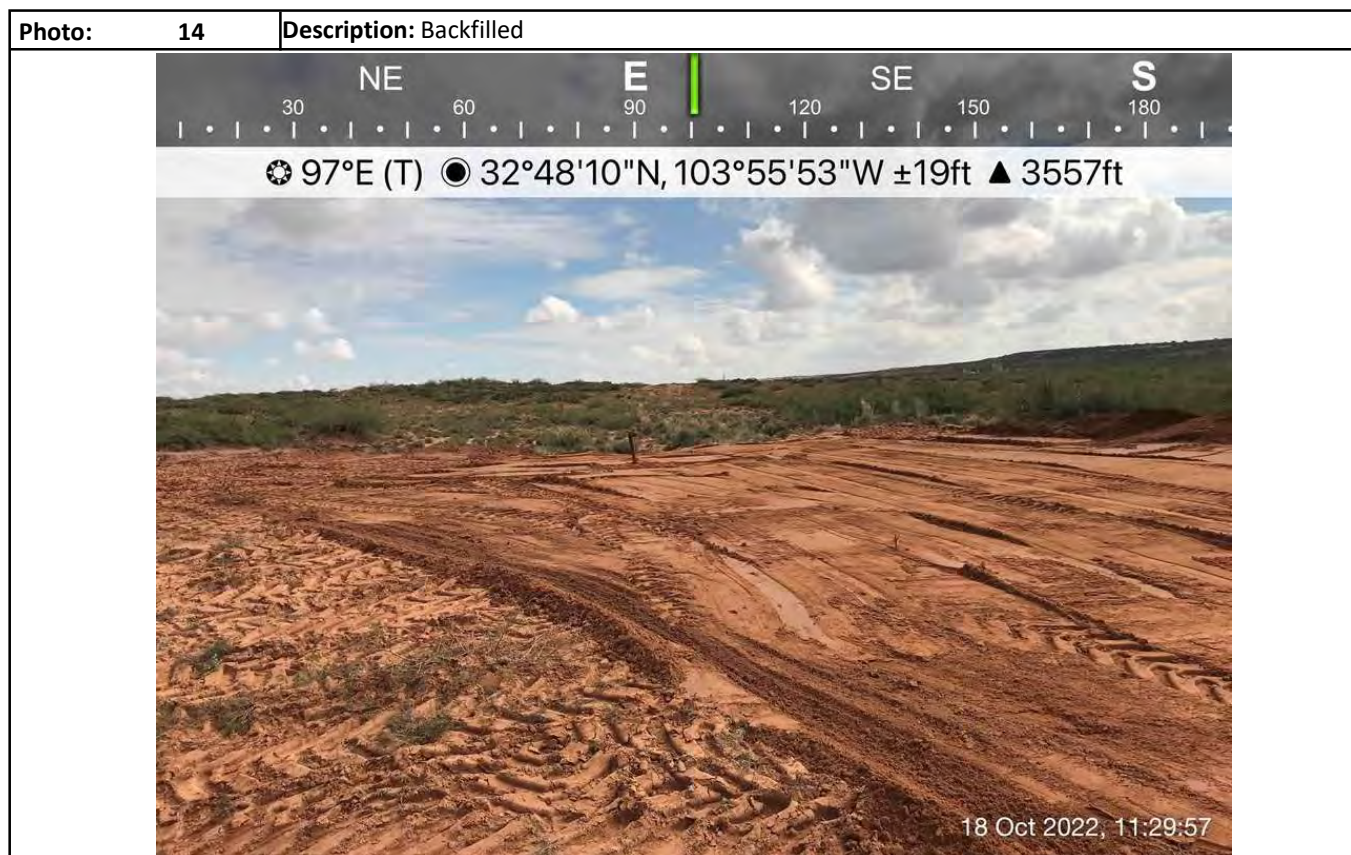
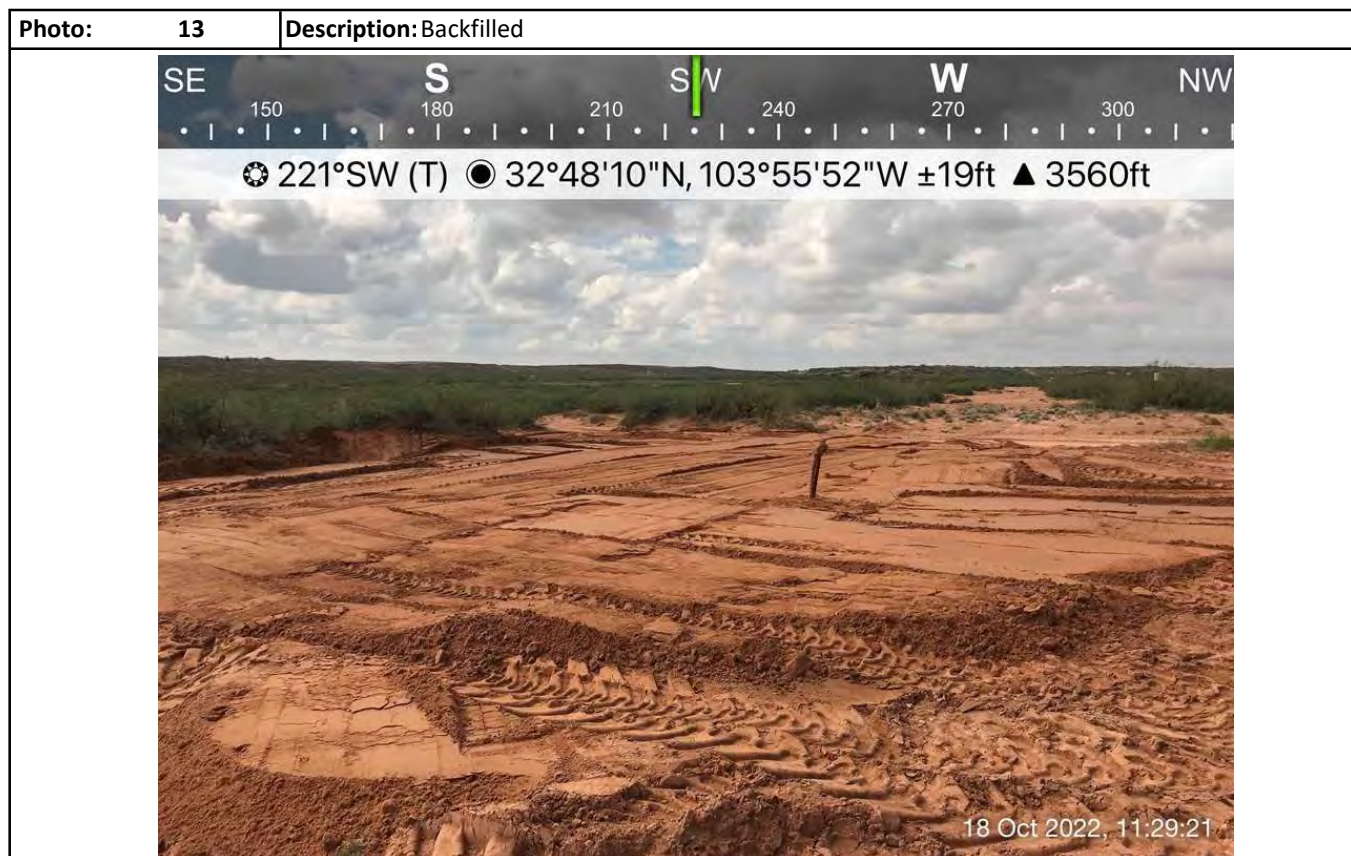


## Photographs





## Photographs



## **Attachment IV**

### **Depth to Groundwater**





New Mexico Office of the State Engineer  
Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 600045.89      Northing (Y): 3629947.41      Radius: 805

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 particular purpose of the data.

10/18/22 11:39 AM

WELLS WITH WELL LOG INFORMATION

## **Attachment V**

### **Field Data**

Hungry Horse, LLC

## Sample Log

Project: MAL 10-35  
Santo Nino 6"Date: 8/29/22Latitude: 32.776513Longitude: -103.97263Sampler: B. Wells

Sample ID	Depth	PID/Odor	Chloride <u>130 (D)</u>	GPS
<u>SP1</u>	<u>surf</u>	<u>odor</u>	<u>1.6 = 32 x 4 = 128 (S)</u>	<u>L2b</u>
	<u>1'</u>	<u>odor</u>	<u>200 (D)</u>	
	<u>2'</u>	<u>possible</u>	<u>2.20 (D) 1.8 = 38 x 4 = 152 (S)</u>	
	<u>3'</u>	<u>N/A</u>	<u>3.0 = 88 x 4 = 352 (S)</u>	
	<u>4'</u>	<u>N/A</u>	<u>200 (D)</u>	
<u>SP2</u>	<u>surf</u>	<u>odor</u>	<u>120 (D)</u>	<u>L2b</u>
	<u>1'</u>	<u>odor</u>	<u>180 (D)</u>	
	<u>2'</u>	<u>possible</u>	<u>1.8 = 38 x 4 = 152</u>	
	<u>3'</u>	<u>N/A</u>	<u>.400 (D) 2.8 = 78 x 4 = 312 (S)</u>	
	<u>4'</u>	<u>N/A</u>	<u>180 (D)</u>	
<u>SP3</u>	<u>surf</u>	<u>odor</u>	<u>130 (D)</u>	<u>L2b</u>
	<u>1'</u>	<u>odor</u>	<u>180 (D)</u>	
	<u>2'</u>	<u>N/A</u>	<u>1000</u>	
	<u>3'</u>	<u>N/A</u>	<u>1100 (D)</u>	
	<u>4'</u>	<u>N/A</u>	<u>150 (D)</u>	
<u>SP4</u>	<u>surf</u>	<u>odor</u>	<u>1.8 = 38 x 4 = 152 (S)</u>	<u>L2b</u>
	<u>1'</u>	<u>odor</u>	<u>140 (D)</u>	
	<u>2'</u>	<u>N/A</u>	<u>1.6 = 32 x 4 = 128</u>	
	<u>3'</u>	<u>N/A</u>	<u>150 (D)</u>	
	<u>4'</u>	<u>N/A</u>	<u>210 (D)</u>	

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Refusal = SP1 @ 4'-R

Resamples = SP1b @ 5' or SW #1b

Sidewall = SW1 etc

GPS Sample Points, Center of Comp Areas

Stockpile = Stockpile #1



## Sample Log

Date: 8/29/22

Sampler: B. Wells

**Stockpile = Stockpile #1**

## **Attachment VI**

### **Laboratory Analytical Reports**



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

---

September 06, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: 6" SANTO NINO

Enclosed are the results of analyses for samples received by the laboratory on 08/29/22 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 1 - SURF (H223964-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTEX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/31/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	190	94.9	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	182	90.9	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.9 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 1 - 1' (H223964-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTEx	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 95.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 2 - SURF (H223964-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTEx	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 2 - 1' (H223964-04)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTX	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/31/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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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:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 3 - SURF (H223964-05)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 3 - 1' (H223964-06)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 94.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 4 - SURF (H223964-07)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 4 - 1' (H223964-08)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTX	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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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:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 5 - SURF (H223964-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTEx	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: HZ 5 - 1' (H223964-10)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTX	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 - SURF (H223964-11)**

BTX 8021B		mg/kg	Analyzed By: JH/					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.319</b>	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
<b>Toluene*</b>	<b>3.61</b>	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
<b>Ethylbenzene*</b>	<b>6.79</b>	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
<b>Total Xylenes*</b>	<b>13.9</b>	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
<b>Total BTX</b>	<b>24.6</b>	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	08/31/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>262</b>	100	08/31/2022	ND	193	96.4	200	3.65	
<b>DRO &gt;C10-C28*</b>	<b>18100</b>	100	08/31/2022	ND	196	98.1	200	2.71	
<b>EXT DRO &gt;C28-C36</b>	<b>3510</b>	100	08/31/2022	ND					

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 812 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 - 3' (H223964-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTEx	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/31/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	61.3	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	10.4	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 - SURF (H223964-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	0.171	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	0.162	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	0.302	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTEX	0.635	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	14100	100	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	3430	100	08/31/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 1060 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 - 3' (H223964-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0		
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7		
Total BTEx	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 3 - SURF (H223964-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	0.115	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	0.138	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	0.334	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTEX	0.587	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	101	100	08/31/2022	ND	193	96.4	200	3.65	
DRO >C10-C28*	16600	100	08/31/2022	ND	196	98.1	200	2.71	
EXT DRO >C28-C36	4100	100	08/31/2022	ND					

Surrogate: 1-Chlorooctane 132 % 45.3-161

Surrogate: 1-Chlorooctadecane 810 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 3 - 3' (H223964-16)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.07	103	2.00	13.0	
Toluene*	<0.050	0.050	09/01/2022	ND	2.03	101	2.00	12.4	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	1.98	98.8	2.00	12.3	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.17	103	6.00	11.7	
Total BTX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/31/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	190	94.9	200	1.09	
DRO >C10-C28*	114	10.0	08/31/2022	ND	182	90.9	200	1.90	
EXT DRO >C28-C36	17.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.1 % 46.3-178

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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:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 - SURF (H223964-17)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.15	108	2.00	3.87	
Toluene*	0.065	0.050	09/01/2022	ND	2.09	104	2.00	3.57	
Ethylbenzene*	0.068	0.050	09/01/2022	ND	2.04	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.30	105	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/31/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/31/2022	ND	190	94.9	200	1.09	
DRO >C10-C28*	3230	50.0	08/31/2022	ND	182	90.9	200	1.90	
EXT DRO >C28-C36	542	50.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 49.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.7 % 46.3-178

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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:**

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

Received: 08/29/2022  
 Reported: 09/06/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 08/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 - 3' (H223964-18)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2022	ND	2.15	108	2.00	3.87		
Toluene*	<0.050	0.050	09/01/2022	ND	2.09	104	2.00	3.57		
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.30	105	6.00	2.41		
Total BTEx	<0.300	0.300	09/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/31/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2022	ND	201	101	200	0.945	
DRO >C10-C28*	67.7	10.0	08/31/2022	ND	217	108	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																																					
Project Manager: Daniel Dominguez		Company: Frontier Field Services, LLC																																									
Address: PO Box 1058		Attn: Amber Groves																																									
City: Hobbs	State: NM	Zip: 88241																																									
Phone #: 575 393-3386	Fax #:	Address: 47 Conoco Rd																																									
Project #:	Project Owner: Frontier Field Services, LLC	City: Maljamar																																									
Project Name: 6" Santo Nino		State: NM	Zip: 88264																																								
Project Location: UL L Sec 25 T17S - R30E		Phone #: 575-703-7992																																									
Sampler Name: Bradley Wells		Fax #:																																									
FOR LAB USE ONLY		PRESERV.		SAMPLING																																							
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride		TPH		BTEX 8021											
1		HZ1-Surf		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
2		HZ1-1'		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
3		HZ2-Surf		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
4		HZ2-1'		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
5		HZ3-Surf		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
6		HZ3-1'		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
7		HZ4-Surf		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
8		HZ4-1'		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
9		HZ5-Surf		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
10		HZ5-1'		G		1		X		X		X		X		X		X		X		X		8/29/22		X		X		X													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																											
Relinquished By: <i>[Signature]</i>		Date: 8/29/22		Time: 3:45 PM		Received By: <i>[Signature]</i>		Date: 8/29/22		Time: 3:45 PM		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS: Email results to: pm@hungry-horse.com agroves@durangomidstream.com																							
Relinquished By: <i>[Signature]</i>		Date:		Time:		Received By: <i>[Signature]</i>		Date:		Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:																									
Delivered By: (Circle One) 15:00 C.O.U.C		Sample Condition		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) <i>[Signature]</i>																																					
Sampler - UPS - Bus - Other: 1440 #113		Sample Condition		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) <i>[Signature]</i>																																					





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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC				P.O. #:				BILL TO				ANALYSIS REQUEST			
Project Manager: Daniel Dominguez				Company: Frontier Field Services, LLC											
Address: PO Box 1058				Attn: Amber Groves											
City: Hobbs		State: NM		Zip: 88241		Address: 47 Conoco Rd									
Phone #: 575 393-3386		Fax #:		Project Owner: Frontier Field Services, LLC		City: Majamar									
Project #:		State: NM		Zip: 88264		Phone #: 575-703-7992									
Project Name: 6" Santo Nino		Project Location: U/L L Sec 25 T17S - R30E		Fax #:											
Sampler Name: Bradley Wells		FOR LAB USE ONLY		PRESERV.		SAMPLING									
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE	
		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride	
11		SP1-Surf		G 1		X		8/29/22		X		X		X	
12		SP1-3'		G 1		X		8/29/22		X		X		X	
13		SP2-Surf		G 1		X		8/29/22		X		X		X	
14		SP2-3'		G 1		X		8/29/22		X		X		X	
15		SP3-Surf		G 1		X		8/29/22		X		X		X	
16		SP3-3'		G 1		X		8/29/22		X		X		X	
17		SP4-Surf		G 1		X		8/29/22		X		X		X	
18		SP4-3'		G 1		X		8/29/22		X		X		X	
19															
20															
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Relinquished By: [Signature]				Date: 8/29/22		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:					
Relinquished By: [Signature]				Time: 3:45 PM		Received By: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:					
Delivered By: (Circle One) 15.02°C.O.U.e				Sample Condition		CHECKED BY: [Signature]									
Sampler - UPS - Bus - Other: 14.42#113				Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>											
Cardinal does not accept verbal changes. Please fax written changes to 575-393-2476															



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

---

October 14, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: 6" SANTO NINO

Enclosed are the results of analyses for samples received by the laboratory on 10/10/22 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	10/10/2022	Sampling Date:	10/10/2022
Reported:	10/14/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ L SEC 25 T17S - R30E		

**Sample ID: FL 1-4' (H224743-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78	
Total BTEX	<0.300	0.300	10/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.4 % 46.3-178

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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:**

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

Received:	10/10/2022	Sampling Date:	10/10/2022
Reported:	10/14/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ L SEC 25 T17S - R30E		

**Sample ID: FL 2-4' (H224743-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78	
Total BTEx	<0.300	0.300	10/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/12/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 89.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/14/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3-3' (H224743-03)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78	
Total BTEX	<0.300	0.300	10/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	33.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 100 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/14/2022  
 Project Name: 6" SANTO NINO  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/ L SEC 25 T17S - R30E

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW1 - 2' (H224743-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78	
Total BTEx	<0.300	0.300	10/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/12/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.8 % 46.3-178

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**Analytical Results For:**

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

Received:	10/10/2022	Sampling Date:	10/10/2022
Reported:	10/14/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ L SEC 25 T17S - R30E		

**Sample ID: SW2 - 2' (H224743-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84		
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98		
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78		
Total BTEx	<0.300	0.300	10/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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**Analytical Results For:**

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

Received:	10/10/2022	Sampling Date:	10/10/2022
Reported:	10/14/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ L SEC 25 T17S - R30E		

**Sample ID: SW3 - 2' (H224743-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78	
Total BTEx	<0.300	0.300	10/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/12/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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**Analytical Results For:**

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

Received:	10/10/2022	Sampling Date:	10/10/2022
Reported:	10/14/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ L SEC 25 T17S - R30E		

**Sample ID: SW4 - 2' (H224743-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84	
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72	
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98	
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78	
Total BTEx	<0.300	0.300	10/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/12/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.7 % 46.3-178

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**Analytical Results For:**

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

Received:	10/10/2022	Sampling Date:	10/10/2022
Reported:	10/14/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ L SEC 25 T17S - R30E		

**Sample ID: SW5 - 2' (H224743-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2022	ND	2.13	107	2.00	1.84		
Toluene*	<0.050	0.050	10/13/2022	ND	2.04	102	2.00	2.72		
Ethylbenzene*	<0.050	0.050	10/13/2022	ND	2.01	100	2.00	1.98		
Total Xylenes*	<0.150	0.150	10/13/2022	ND	6.12	102	6.00	1.78		
Total BTEx	<0.300	0.300	10/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2022	ND	416	104	400	3.77		

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	10/12/2022	ND	203	101	200	0.862	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	208	104	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





---

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---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

---

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

## BILL TO

## ANALYSIS REQUEST

Page 11 of 11

P.O. #:

Company

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

FL1-4'

FL2-4'

FL3-3'

SW1-2'

SW2-2'

SW3-2'

SW4-2'

SW5-2'

C 1

C 1

C 1

C 1

C 1

C 1

C 1

C 1

C 1

C 1

C 1

C 1

C 1

DATE

TIME

Chloride

TPH

BTEX 8021

Yes

No

Add'l Phone #:

Fax Result:

REMARKS:

Phone Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

No

Add'l Phone #:

Fax Result:

Yes

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Yes

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Add'l Phone #:

Fax Result:

Yes

No

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Yes

No

Add'l Phone #:

Fax Result:

Yes

## **Attachment VII**

### **NMSLO Approved Seed Mix**

## Recommend seedbed preparation requirements.

### Site Description

Site consists of Kermit-Berino fine sands with 0 to 3 percent slopes. Vegetation includes but is not limited to shinnery oak, broom snakeweed, sand sagebrush, pricklypear, sand bluestem, little bluestem sand dropseed, sideoats grama, globemallow, annual buckwheat, annual sunflower, etc.

### When to Seed

The preferred time for warm season species is 3-6 weeks after the last killing frost in the spring, although they may be seeded any time during the growing season except the last 30 days prior to the average killing frost date. Preferred time is before the monsoon season from July through early September.

### Seeding Techniques

The seed mixture shall be planted using a seed drill equipped with a depth regulator, not to exceed ½ inch. The seed mixture will be evenly and uniformly planted over the disturbed area. Where drilling is not possible, seed should be broadcast and the area raked or chained to cover the seed. When broadcasting, the lbs/ acre are to be doubled. It would be beneficial and may be necessary to add a layer of native grass hay, or other approved mulch free of noxious weeds. Mulch should be applied at 1-2 tons per acre, where pockets of bare ground are still visible, then disked into the soil to reduce loss of material. Mulch will help with infiltration, soil organic matter, overall success of seed germination, and plant establishment.

Total pounds of pure live seed per acre are based on seed being weed free. If one species is not available, it was recommended that all other species available were increased proportionately and that **NOT JUST ONE SPECIES** be increased. The recommendation also provided that at least 4 species of the recommended grasses be used, including 1 forb. No less than 8 pounds per acre should be applied. The appropriate application should be reviewed prior to reclamation reseeding.

Common Name and Preferred Variety	Scientific Name	Pounds of Pure Live Seed Per Acre
<b>Annual Quick-cover Grass</b>		
Sterile Triticale	<i>Triticum aestivum X Secale cereale</i> 'Quickguard'	0.5
<b>Warm-Season Grass</b>		
Black or Blue Grama	<i>Boutela gracilis var. Alma</i>	1.5
Little Bluestem	<i>Schizachyrium scoparium</i>	1.0
Sand Dropseed	<i>Sporobolus cryptandrus</i>	0.5
Sand Bluestem	<i>Andropogon hallii</i>	1.0
Indiangrass	<i>Sorghastrum nutans</i>	0.5
Arizona Cottontop	<i>Digitaria californica</i>	1.0
Sideoats Grama	<i>Bouteloua curtipendula var. Vaughn</i>	2.0
Plains Bristlegrass	<i>Setaria vulpiseta</i>	1.5
<b>Forbs/shrubs</b>		
White prairie clover	<i>Dalea candida</i>	0.10
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10
Chia Sage	<i>Salvia columbariae</i>	0.10
Annual sunflower	<i>Helianthus annuus</i>	0.10
Annual buckwheat	<i>Eriogonum annuum</i>	0.10

**PURE LIVE SEED/ACRE TOTAL: 10.00**



**Attachment VIII**  
**NMOCD Form Initial C-141**

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	nAPP2223724372
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Frontier Field Services, LLC	OGRID 221115
Contact Name Amber Groves	Contact Telephone 575-703-7992
Contact email <a href="mailto:agroves@durangomidstream.com">agroves@durangomidstream.com</a>	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

### Location of Release Source

Latitude 32.802952 Longitude -103.931425  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 6" Santo Nino	Site Type Pipeline
Date Release Discovered 8/24/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	25	17S	30E	Eddy

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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 0.74	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 60.26	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

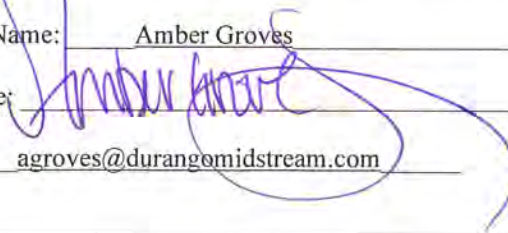
External & Internal corrosion on side of pipeline.

Incident ID	nAPP2223724312
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?

### 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:	
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>Amber Groves</u>	Title: <u>Remediation Specialist</u>
Signature: 	Date: <u>5/22/2022</u>
email: <u>agroves@durangomidstream.com</u>	Telephone: <u>(575)703-7992</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>08/24/2022</u>



## Liquid Volume Release Report

Liquid Release Volume Calculator							
Date:	8/24/2022						
Site or Line Name:	MAL-10-35 Santo Nino 6" Steel Line LP						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15				0	0.00	Clay
Sandy Clay	0.12				0	0.00	Sandy Clay
Silt	0.16				0	0.00	Silt
Fine Sand	0.16				0	0.00	Fine Sand
Medium Sand	0.25				0	0.00	Medium Sand
Coarse Sand	0.26	4	4	1	16	0.74	Coarse Sand
Gravely Sand	0.26				0	0.00	Gravely Sand
Fine Gravel	0.26				0	0.00	Fine Gravel
Medium Gravel	0.20				0	0.00	Medium Gravel
Coarse Gravel	0.18				0	0.00	Coarse Gravel
Sandstone	0.25				0	0.00	Sandstone
Siltstone	0.18				0	0.00	Siltstone
Limestone	0.13				0	0.00	Limestone
Basalt	0.19				0	0.00	Basalt
Standing Liquids	X	0	0	0	0	0.00	Standing Liquids

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

$$\text{Cubic Feet} = L \times W \times D$$

$$\text{Estimated Barrels} = ((\text{Cubic Feet} \times \text{Porosity}) / 5.61)$$





## Gas Volume Release Report

Gas Release Volume Calculator		
Date:	8/24/2000	
Site or Line Name:	MAL-10-35 Santo Nino 6" Steel Line LP	
Area of hole in pipe:	0.25	square inches
Absolute Pressure:	52.7	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes
Temperature:	87	Degrees F
Absolute Pressure:	52.7	psia (Gauge Pressure + 14.7)
Representative Gas Analysis	Please attach or email a representative gas analysis	
Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - SCF	60.26	MSCF
Notes		
Entered by user		
Calculated Value		
Constant		

**District I**  
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**District II**  
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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 137863

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 137863
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	8/29/2022

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

CONDITIONS

Action 155636

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 155636
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2223724372 6" SANTO NINO STEEL LINE, thank you. This closure is approved.	1/12/2023