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## Soil Assessment and Remediation Work Plan

Smalls Federal #001H  
API # 30-025-43001  
Talon Project # 700778.123.01

### Prepared For:

COG Operating LLC  
600 W Illinois Ave  
Midland, TX 79701-4882

### Prepared By:

TALON/LPE  
408 W. Texas Avenue  
Artesia, NM 88210

**November 19, 2019**

**NMOCD District 1**  
1625 N. French Drive  
Hobbs, NM 88240

Mr. Jim Amos  
**Bureau of Land Management**  
602 E. Green Street  
Carlsbad, NM 88220

Mr. Ryan Mann  
**New Mexico State Land Office**  
2827 N. Dal Paso, Suite 117  
Hobbs, NM 88240

Subject: **Soil Assessment and Remediation Work Plan**  
Smalls Federal #001H  
Lea County, New Mexico  
API # 30-025-43001

COG Operating LLC (COG) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities are contained herein.

### Site Information

Smalls Federal #001H is located approximately thirty-three (33) miles southwest of Hobbs, New Mexico. The legal location for this release is Unit Letter J, Section 09, Township 23 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.317139 North and -103.472853 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Ratliff-Wink fine sandy loams. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian and piedmont deposits. Drainage courses in this area are typically dry.

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 200-feet below ground surface (BGS). See [Appendix II](#) for the referenced groundwater depth.

### Site Characterization

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate Depth to Groundwater	200 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or playa lake
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any fresh water well or spring
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain

This release did not occur within any of these areas and the depth to groundwater exceeds 100-feet BGS. Based upon the analytical data collected for this subsurface investigation, the impacts from this release are below NMOCD remediation closure criteria. However, analytical data indicates chloride concentrations in excess of 600 mg/kg. As such, the upper 4-feet of this area will be restored to levels set forth in Table 1, 19.15.29 NMAC closure criteria. Therefore the reclamation closure criteria for this site will be as follows:

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

On June 9, 2019, twenty (20) barrels (bbls) of produced water were released from a hole in the flow line. Fifteen (15) bbls were recovered using a vacuum truck. The initial C-141 is attached in [Appendix III](#). The flow path extends approximately 750 feet in length by 4-8 feet wide and flows through a bar ditch adjacent to a county maintained roadway. The impacted area is illustrated on the attached site plans ([Appendix I](#)).

### Site Assessment

On June 14, 2019, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected within and around the impacted area utilizing a hand auger. Results from our initial sampling event are presented in the following data table. A complete laboratory report can be found in [Appendix IV](#).

## June 14, 2019 Sampling Event

Sample ID	Depth (ft.)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
BG-1	0-1	ND	ND	ND	ND	ND	0	ND
BG-2	0-1	ND	ND	ND	ND	ND	0	80
BG-3	0-1	ND	ND	ND	ND	ND	0	ND
S-1	0	ND	ND	ND	ND	ND	0	ND
S-2	0	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	1880
	2	ND	ND	ND	ND	ND	0	32
	3	ND	ND	ND	ND	ND	0	32
	4	ND	ND	ND	ND	ND	0	32
S-3	0	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	ND
S-4	0	ND	ND	ND	ND	ND	0	7600
	1	ND	ND	ND	ND	ND	0	4000
	2	ND	ND	ND	ND	ND	0	4000
	3	ND	ND	ND	ND	ND	0	3360
	4	ND	ND	ND	ND	ND	0	384
S-5	0	ND	ND	ND	ND	ND	0	4400
S-6	0	ND	ND	ND	ND	ND	0	64
S-7	0	ND	ND	ND	ND	ND	0	3040
	1	ND	ND	ND	ND	ND	0	2280
	2	ND	ND	ND	ND	ND	0	3760
S-8	0	ND	ND	ND	ND	ND	0	2600
S-9	0	ND	ND	ND	ND	ND	0	192
S-10	0	ND	ND	ND	ND	ND	0	4400
S-11	0	ND	ND	ND	ND	ND	0	4240
S-12	0	ND	ND	ND	ND	ND	0	48
S-13	0	ND	ND	ND	ND	ND	0	3360
	1	ND	ND	ND	ND	ND	0	3600
	2	ND	ND	ND	ND	ND	0	3600
	3	ND	ND	ND	ND	ND	0	4000
	4	ND	ND	ND	ND	ND	0	496
S-14	0	ND	ND	ND	ND	ND	0	16
S-15	0	ND	ND	ND	ND	ND	0	ND

Sample ID	Depth (ft.)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-16	0	ND	ND	ND	ND	ND	0	4960
	1	ND	ND	ND	ND	ND	0	3520
	2	ND	ND	ND	ND	ND	0	5840
	3	ND	ND	ND	ND	ND	0	64
	4	ND	ND	ND	ND	ND	0	48
S-17	0	ND	ND	ND	ND	ND	0	2040
S-18	0	ND	ND	ND	ND	ND	0	32
S-19	0	ND	ND	ND	285	97.9	382.9	3600
	1	ND	ND	ND	ND	ND	0	3000
	2	ND	ND	ND	ND	ND	0	768
	3	ND	ND	ND	ND	ND	0	160
	4	ND	ND	ND	ND	ND	0	208
S-20	0	ND	ND	ND	ND	ND	0	400
S-21	0	ND	ND	ND	ND	ND	0	2520
S-22	0	ND	ND	ND	ND	ND	0	4880
	1	ND	ND	ND	ND	ND	0	2480
	2	ND	ND	ND	ND	ND	0	2400
	3	ND	ND	ND	ND	ND	0	3400
	4	ND	ND	ND	ND	ND	0	176
S-23	0	ND	ND	ND	ND	ND	0	48
S-24	0	ND	ND	ND	ND	ND	0	16
S-25	0	ND	ND	ND	ND	ND	0	416

ND= Not Detected

NT= Not Tested

On September 3, 2019, Talon personnel utilized a Geoprobe rig to further vertically delineate those points at which chloride concentrations were still found to be greater than 600 mg/kg. The analytical results from this sampling event can be found in the following data table:

September 3, 2019 Sampling Event

Sample ID	Depth (ft.)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-5	1	NT	NT	NT	NT	NT	0	32
	2	NT	NT	NT	NT	NT	0	16
	3	NT	NT	NT	NT	NT	0	64
	4	NT	NT	NT	NT	NT	0	496
S-7	3	NT	NT	NT	NT	NT	0	2040
	4	NT	NT	NT	NT	NT	0	3840
	5	NT	NT	NT	NT	NT	0	304
	6	NT	NT	NT	NT	NT	0	32
S-8	1	NT	NT	NT	NT	NT	0	64
	2	NT	NT	NT	NT	NT	0	32
	3	NT	NT	NT	NT	NT	0	32
	4	NT	NT	NT	NT	NT	0	208
	5	NT	NT	NT	NT	NT	0	64
S-10	2	NT	NT	NT	NT	NT	0	1580
	3	NT	NT	NT	NT	NT	0	1330
	4	NT	NT	NT	NT	NT	0	32
	5	NT	NT	NT	NT	NT	0	288
S-17	1	NT	NT	NT	NT	NT	0	176
	2	NT	NT	NT	NT	NT	0	592
	3	NT	NT	NT	NT	NT	0	1260
	4	NT	NT	NT	NT	NT	0	752
	5	NT	NT	NT	NT	NT	0	128
S-21	1	NT	NT	NT	NT	NT	0	16
	2	NT	NT	NT	NT	NT	0	ND
	3	NT	NT	NT	NT	NT	0	32
	4	NT	NT	NT	NT	NT	0	32
	5	NT	NT	NT	NT	NT	0	528
	7	NT	NT	NT	NT	NT	0	1710
	9	NT	NT	NT	NT	NT	0	2800
	11	NT	NT	NT	NT	NT	0	3240
	13	NT	NT	NT	NT	NT	0	336
	15	NT	NT	NT	NT	NT	0	16

A final sampling event was carried out on November 3, 2019, to confirm the horizontal boundaries of the proposed excavation. The analytical results are summarized below:

#### November 12, 2019 Sampling Event

Sample ID	Depth (ft.)	BTEX (mg/kg)	Benzene (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total TPH (mg/kg)	Cl (mg/kg)
Closure Criteria 19.15.29.12 NMAC		50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
S-26	0-1	NT	NT	NT	NT	NT	0	16
	2	NT	NT	NT	NT	NT	0	16
	3	NT	NT	NT	NT	NT	0	16
S-27	0-1	NT	NT	NT	NT	NT	0	16
S-28	0-1	NT	NT	NT	NT	NT	0	ND
S-29	0-1	NT	NT	NT	NT	NT	0	16
S-29	2	NT	NT	NT	NT	NT	0	ND

ND= Not Detected

NT= Not Tested

### Proposed Remedial Actions

- Traffic control measures (signs, barrels, cones and flagmen) will be utilized to ensure the safety of field personnel. Remediation activities will be carried out with diligence and extreme care due to safety concerns while excavating near a roadway.
- The impacted area near sample location S-2 at the south end of the flow path will be excavated to a depth of 2.0-feet BGS. Proposed excavation area maps are attached in [Appendix I](#).
- The areas in the vicinity of sample points S-16 and S-19 will be excavated to 3.0-feet BGS.
- The areas near sample points S-4, S-7, S-10, S-11, S-13, S-17 and S-22 will be excavated to 4.0-feet BGS.
- Soil samples were collected approximately every 200 square feet and the impacted area is vertically delineated to below 600 mg/kg. Due to safety concerns we recommend that no final laboratory confirmation sampling be required. We propose to backfill each day based upon the results of our field chloride titrations to minimize the amount of time personnel are exposed to nearby traffic and avoid potential overnight traffic hazards of an open excavation.
- The excavated areas will be backfilled either with new caliche or topsoil dependent upon which material was removed. Once the backfilling activities are complete the work area will be machine compacted and contoured to match the surrounding location.
- All of the excavated material (approximately 880 yards) will be hauled to a NMOCD approved solid waste disposal facility.
- The work area will be seeded with State Sandy Loam (SL) seed mixture at the prescribed rate.

**Closure**

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

TALON/LPE



Brandon Sinclair  
Environmental Scientist



David J. Adkins  
District Manager

Attachments:

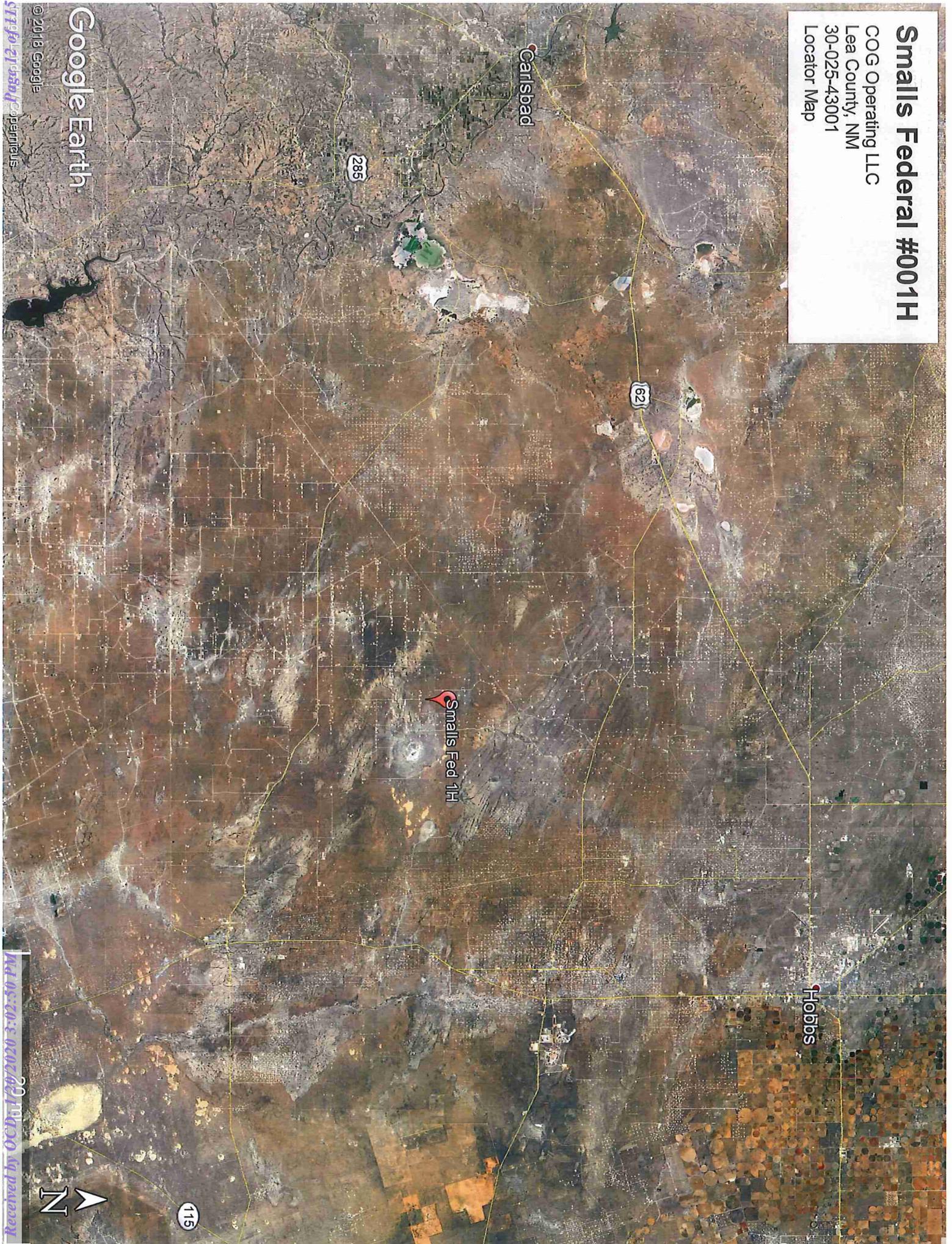
- Appendix I Site Maps
- Appendix II Soil Survey, Groundwater Data & FEMA Flood Map
- Appendix III Initial C-141
- Appendix IV Laboratory Data



# APPENDIX I

# SITE MAPS

**Smalls Federal #001H**  
COG Operating LLC  
Lea County, NM  
30-025-43001  
Locator Map



Google Earth

© 2018 Google

SVT95h-2jw584j Cojperitcus

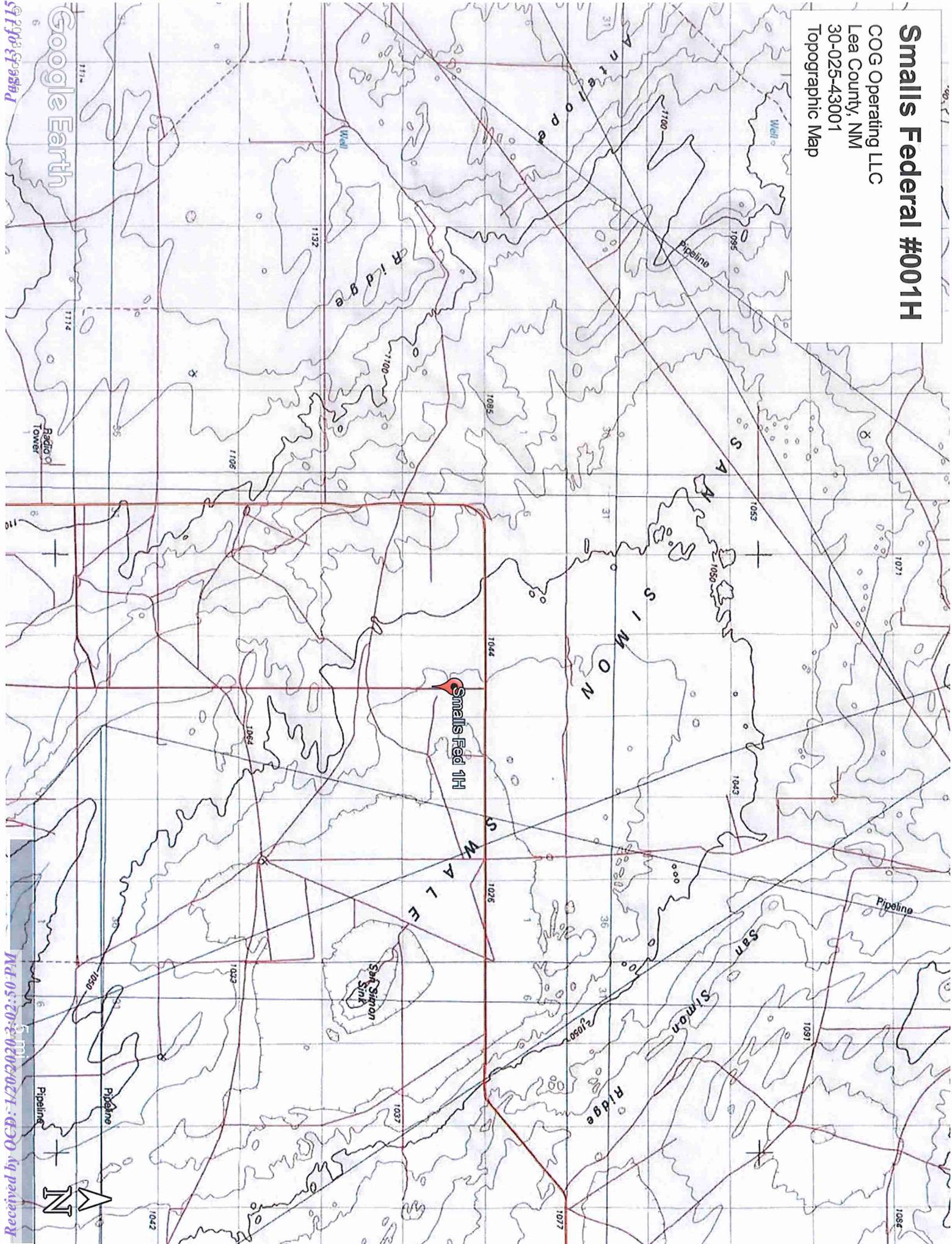
44-05-20.3-00026211000 by paxxxxer



115

# Smalls Federal #001H

COG Operating LLC  
Lea County, NM  
30-025-43001  
Topographic Map



5/13/08 5:58:58 PM

Received by GCD: 2/20/2020 2:02:06 PM

# Smalls Federal #001H

COG Operating LLC  
Lea County, NM  
30-025-43001  
Karst Map

**Legend**

- High
- Low
- Medium

Smalls Fed 1H

Google Earth

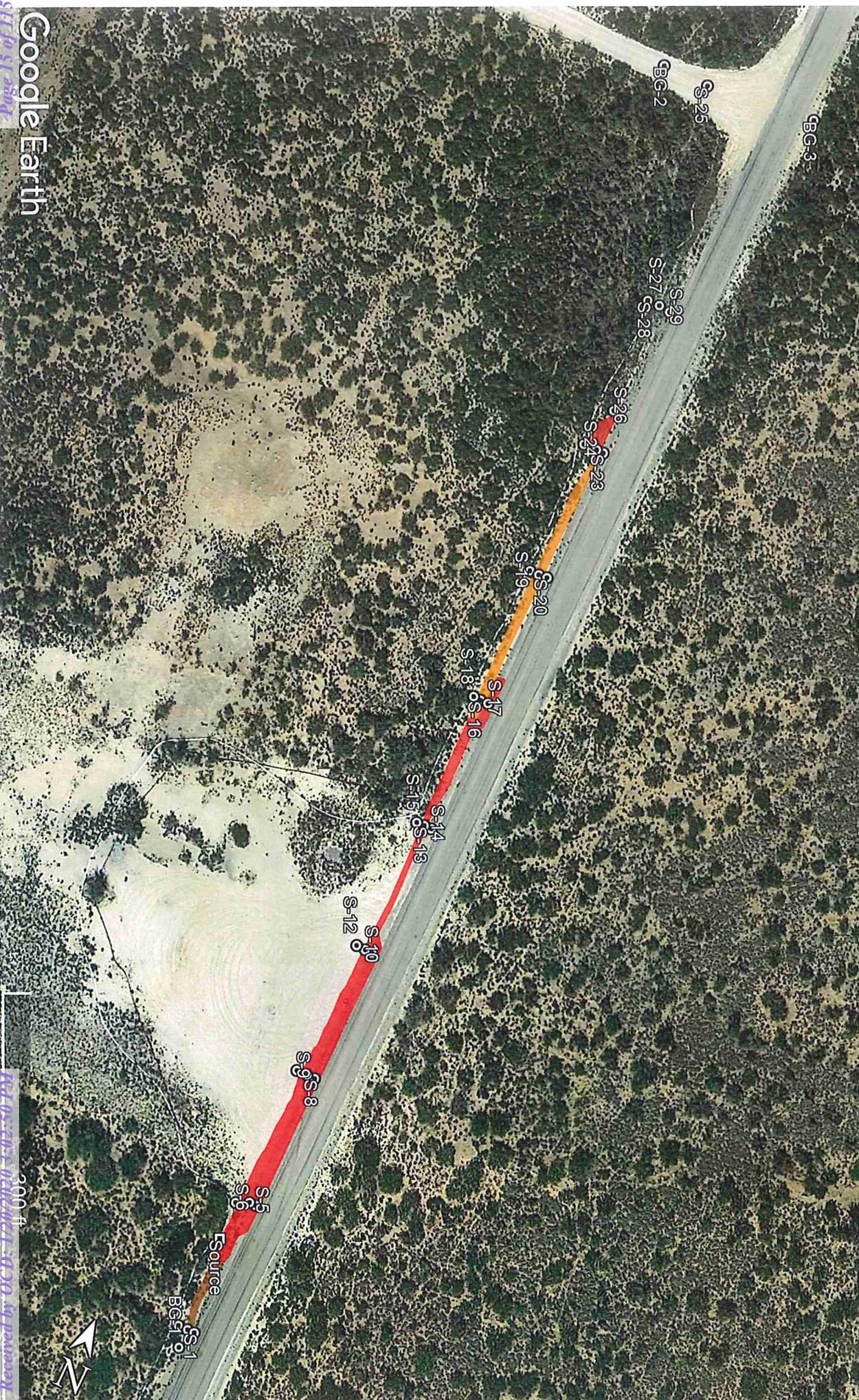
STP 66-17-0001 Copernicus



10 mi  
PM 05:20:30 02/20/21 050 by jainv32

**Smalls Federal #001H**  
COG Operating LLC  
Lea County, NM  
30-025-43001  
Site Overview Map

- Legend**
- 2' Excavation
  - 3' Excavation
  - 4' Excavation
  - Soil Sample



# Smalls Federal #001H

COG Operating LLC

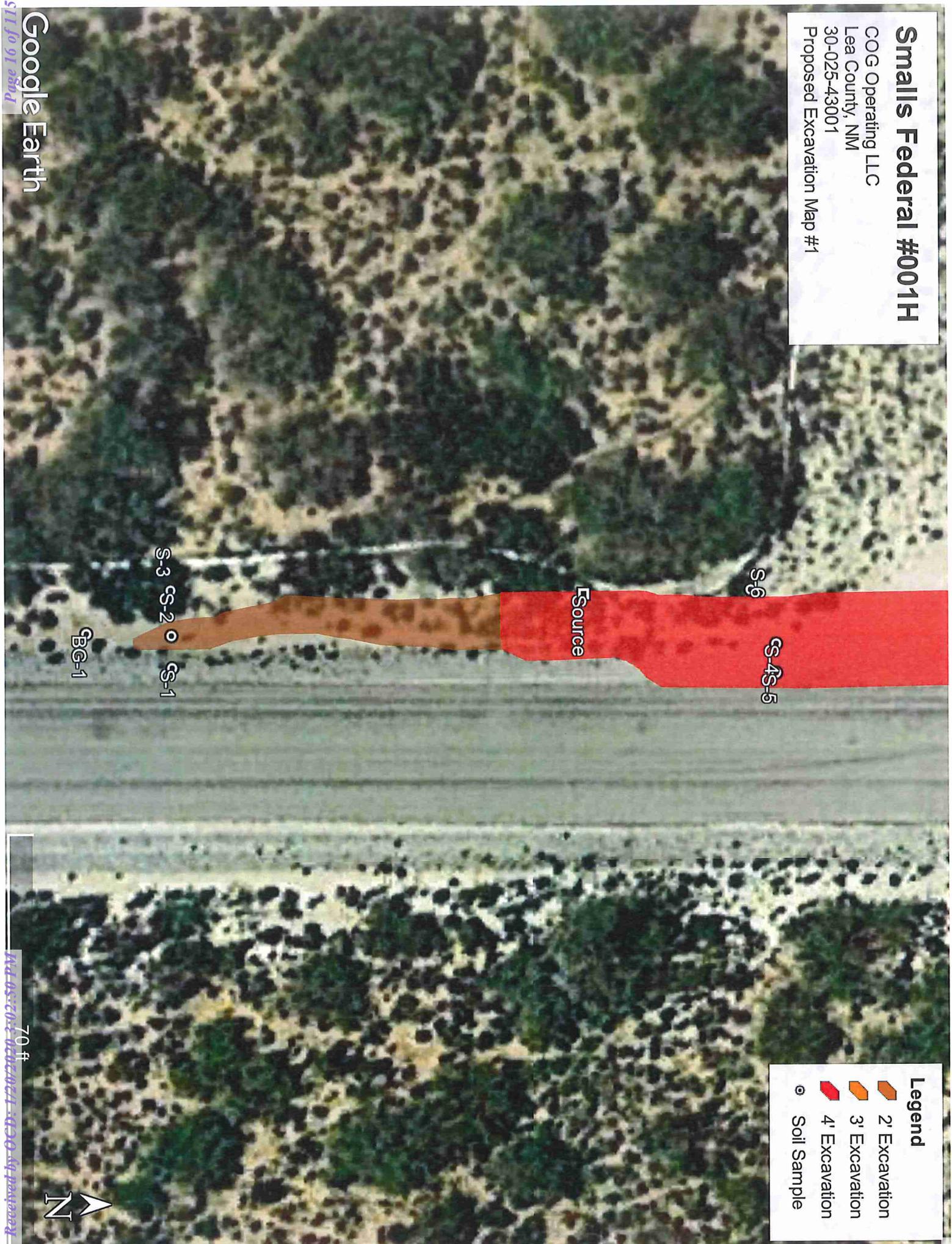
Lea County, NM

30-025-43001

Proposed Excavation Map #1

**Legend**

-  2' Excavation
-  3' Excavation
-  4' Excavation
-  Soil Sample



70 ft

# Smalls Federal #001H

COG Operating LLC

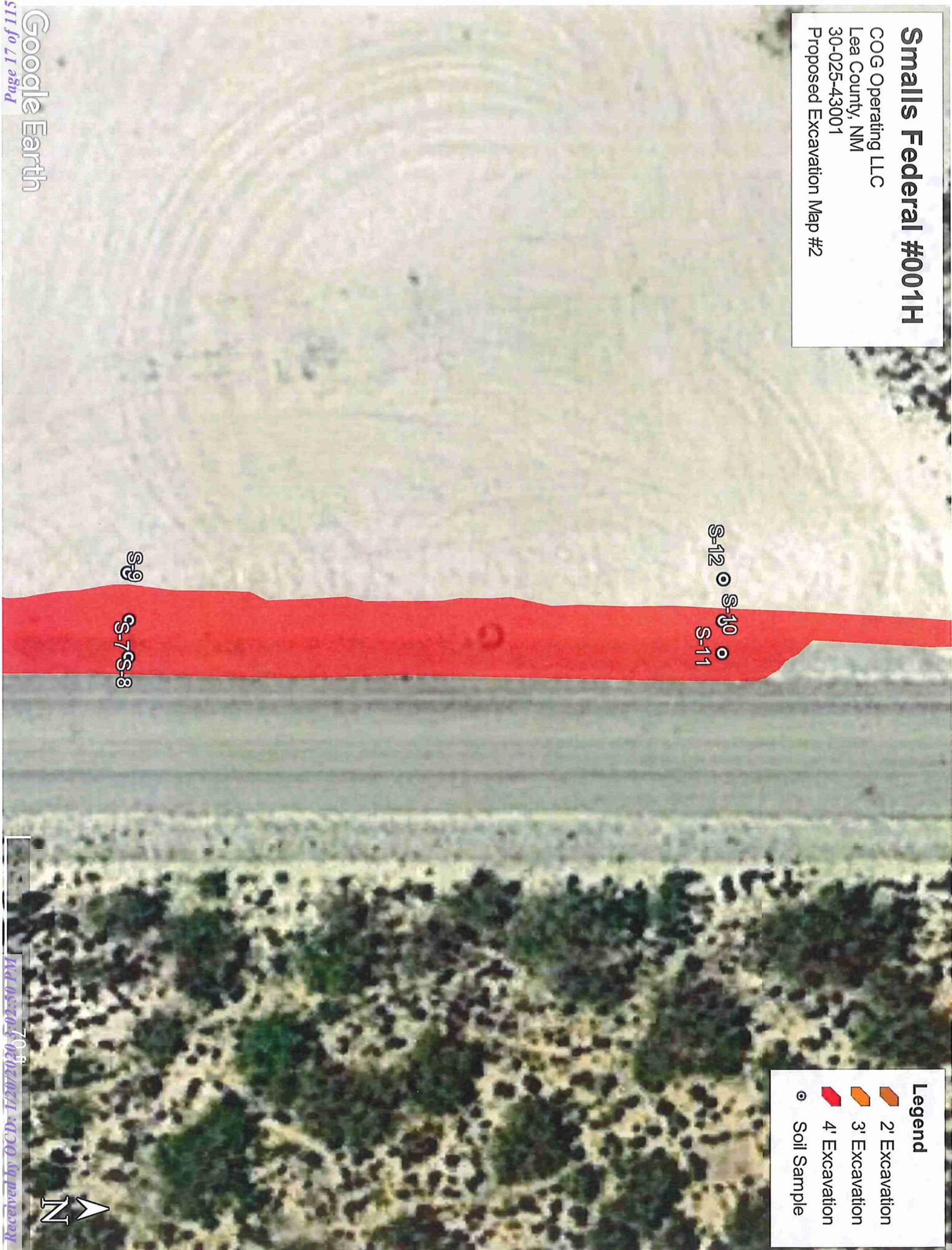
Lea County, NM

30-025-43001

Proposed Excavation Map #2

**Legend**

-  2' Excavation
-  3' Excavation
-  4' Excavation
-  Soil Sample



# Smalls Federal #001H

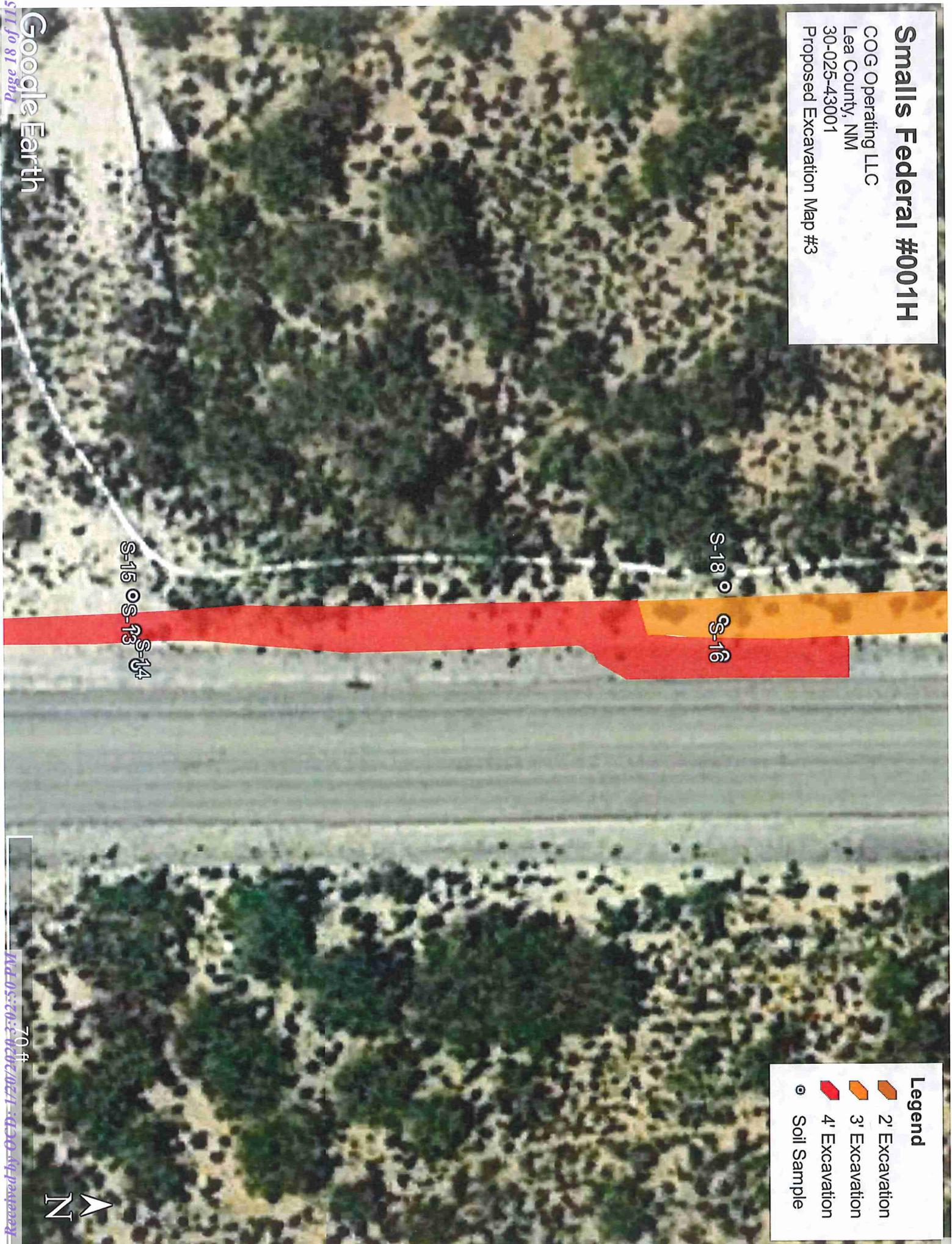
COG Operating LLC

Lea County, NM

30-025-43001

Proposed Excavation Map #3

- Legend**
- 2' Excavation
  - 3' Excavation
  - 4' Excavation
  - Soil Sample



S-18 ○ S-16

S-15 ○ S-13 S-14

70 ft







# APPENDIX II

## SOIL SURVEY

## GROUNDWATER DATA

## FEMA FLOOD MAP

## Lea County, New Mexico

### MN—Ratliff-Wink fine sandy loams

#### Map Unit Setting

*National map unit symbol:* dmqf

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

*Mean annual precipitation:* 10 to 15 inches

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

*Frost-free period:* 190 to 205 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Ratliff and similar soils:* 45 percent

*Wink and similar soils:* 40 percent

*Minor components:* 15 percent

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

#### Description of Ratliff

##### Setting

*Landform:* Plains

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 4 inches:* fine sandy loam

*Bw - 4 to 22 inches:* clay loam

*Bk - 22 to 60 inches:* clay loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 50 percent

*Gypsum, maximum in profile:* 1 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 2.0

*Available water storage in profile:* Moderate (about 8.1 inches)

**Interpretive groups**

*Land capability classification (irrigated): 4e*  
*Land capability classification (nonirrigated): 6c*  
*Hydrologic Soil Group: B*  
*Ecological site: Loamy (R042XC007NM)*  
*Hydric soil rating: No*

**Description of Wink**

**Setting**

*Landform: Plains*  
*Landform position (three-dimensional): Dip*  
*Down-slope shape: Convex*  
*Across-slope shape: Convex*  
*Parent material: Calcareous sandy alluvium and/or calcareous sandy eolian deposits derived from sedimentary rock*

**Typical profile**

*A - 0 to 12 inches: fine sandy loam*  
*Bk - 12 to 23 inches: sandy loam*  
*Bck - 23 to 60 inches: sandy loam*

**Properties and qualities**

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Natural drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum in profile: 30 percent*  
*Gypsum, maximum in profile: 1 percent*  
*Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum in profile: 2.0*  
*Available water storage in profile: Low (about 4.7 inches)*

**Interpretive groups**

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: A*  
*Ecological site: Sandy (R042XC004NM)*  
*Hydric soil rating: No*

**Minor Components**

**Kermit**

*Percent of map unit: 6 percent*  
*Ecological site: Sandhills (R042XC022NM)*  
*Hydric soil rating: No*

Map Unit Description: Ratliff-Wink fine sandy loams---Lea County, New Mexico

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**Maljamar**

*Percent of map unit:* 5 percent  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

**Palomas**

*Percent of map unit:* 4 percent  
*Ecological site:* Loamy Sand (R042XC003NM)  
*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 16, Sep 15, 2019





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

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	WellDepth	Water Column
<a href="#">CP 01730 POD1</a>	CP	LE	2 2 1 16	23S	34E	643549	3575824	815	594	200	394			
<a href="#">CP 01502 POD2</a>	CP	LE	4 3 3 05	23S	34E	642074	3577676	1989	680	300	380			
<a href="#">CP 00556 POD1</a>	CP	LE	4 4 3 08	23S	34E	641762	3576206	2034	497	255	242			

Average Depth to Water: 251 feet  
 Minimum Depth: 200 feet  
 Maximum Depth: 300 feet

Record Count:3

UTMNAD83 Radius Search (in meters):

Easting (X): 643755.85

Northing (Y): 3576613.36

Radius: 2500

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.

9/30/19 12:22 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

# National Flood Hazard Layer FIRMette



## Legend

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

	Without Base Flood Elevation (BFE) Zone A, V, A99
	With BFE or Depth Zone AE, AO, AH, VE, AP Regulatory/Floodway

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone J)

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee, See Notes, Zone X

OTHER AREAS OF FLOOD HAZARD

NO SCREEN  
Area of Minimal Flood Hazard Zone X

Effective LOMRS  
Area of Undetermined Flood Hazard Zone

OTHER AREAS GENERAL STRUCTURES  
Channel, Culvert, or Storm Sewer  
Levee, Dike, or Floodwall

20.2  
17.5  
Cross Sections with 1% Annual Chance  
Water Surface Elevation

Coastal Transect  
Base Flood Elevation Line (BFE)

99  
Limit of Study  
Jurisdiction Boundary

Coastal Transect Baseline  
Profile Baseline  
Hydrographic Feature

OTHER FEATURES

MAP PANELS  
Digital Data Available  
No Digital Data Available  
Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **9/30/2019 at 2:31:40 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Received by OCD: 9/30/2019 2:31:40 PM



### **Zone D**

Designation on National Flood Insurance Program maps used for areas where there are possible, but undetermined, flood hazards. In areas designated as Zone D, no analysis of flood hazards has been conducted. Mandatory flood insurance purchase requirements do not apply, but coverage is available. The flood insurance rates for properties in Zone D are commensurate with the uncertainty of the flood risk.

### **Zone V**

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Because approximate hydraulic analyses are performed for such areas, no Base Flood Elevations are shown within this zone. Mandatory flood insurance purchase requirements apply.

### **Zone VE**

The flood insurance rate zone that corresponds to the 100-year coastal floodplains that have additional hazards associated with storm waves. Base Flood Elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

### **Zone B, C, and X**

Zones B, C, and X are the flood insurance rate zones that correspond to areas outside the 100-year floodplains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No Base Flood Elevations or depths are shown within this zone.



# APPENDIX III

## 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	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570
Contact email	JKnowlton@concho.com	Incident # (assigned by OCD)	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

### Location of Release Source

Latitude 32.31665 Longitude -103.47247  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Smalls Federal #001H	Site Type	Tank Battery
Date Release Discovered	June 9, 2019	API# (if applicable)	

Unit Letter	Section	Township	Range	County
J	09	23S	34E	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) 20	Volume Recovered (bbls) 15
	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

The release was caused by a hole in the flowline. The flowline is being repaired. The release was in the pasture, in the bar ditch and on the pad. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Form C-141

State of New Mexico  
Oil Conservation Division

Page 2

Incident ID	
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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### 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>DeAnn Grant</u> Title: <u>HSE Administrative Assistant</u> Signature: <u></u> Date: <u>6/20/2019</u> email: <u>agrant@concho.com</u> Telephone: <u>(432) 253-4513</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

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

Signature: Sheldon Nitan Date: \_\_\_\_\_

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

**OCD Only**

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

Incident ID	
District RP	
Facility ID	
Application ID	

## 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.

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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Sheldon Nitan Date: \_\_\_\_\_

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

**OCD Only**

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

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

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

Incident ID	
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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Sheldon Hittman Date: \_\_\_\_\_

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

**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: \_\_\_\_\_



# APPENDIX IV

# LABORATORY DATA



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

June 21, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SMALLS FED #001H

Enclosed are the results of analyses for samples received by the laboratory on 06/17/19 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: BG - 1 0-1' (H902080-01)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	1.97	98.5	2.00	2.13	
Toluene*	<0.050	0.050	06/19/2019	ND	1.96	97.8	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.86	93.0	2.00	3.64	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.65	94.1	6.00	2.35	
Total BTEX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

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	06/19/2019	ND	432	108	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 91.6 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: BG - 2 0-1' (H902080-02)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/19/2019	ND	432	108	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 99.8 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: BG - 3 0-1' (H902080-03)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	06/19/2019	ND	432	108	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 1 0' (H902080-04)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

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	06/19/2019	ND	432	108	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 103 % 41-142  
 Surrogate: 1-Chlorooctadecane 108 % 37.6-147

Cardinal Laboratories \* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 2 0' (H902080-05)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	06/19/2019	ND	432	108	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 2 1' (H902080-06)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	06/19/2019	ND	432	108	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 2 2' (H902080-07)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 73.3-129

Chloride, SM4500Cl-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	06/19/2019	ND	400	100	400	3.92	QR-03	

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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 2 3' (H902080-08)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-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	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 06/17/2019  
 Reported: 06/21/2019  
 Project Name: SMALLS FED #001H  
 Project Number: 700778.123.01  
 Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 2 4' (H902080-09)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-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	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 3 0' (H902080-10)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.3-129

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	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 3 1' (H902080-11)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

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	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 4 0' (H902080-12)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	06/19/2019	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	06/18/2019	ND	192	95.8	200	1.04	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 4 1' (H902080-13)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 4 2' (H902080-14)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 4 3' (H902080-15)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 4 4' (H902080-16)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 90.1 % 41-142

Surrogate: 1-Chlorooctadecane 90.8 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 5 0' (H902080-17)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 6 0' (H902080-18)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEX	<0.300	0.300	06/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.3-129

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	06/19/2019	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	06/18/2019	ND	206	103	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72	
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 7 0' (H902080-19)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 06/17/2019  
 Reported: 06/21/2019  
 Project Name: SMALLS FED #001H  
 Project Number: 700778.123.01  
 Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 7 1' (H902080-20)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 7 2' (H902080-21)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12		
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 8 0' (H902080-22)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21	QR-03	
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PII) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 83.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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

**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 9 0' (H902080-23)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/19/2019	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	06/18/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 10 0' (H902080-24)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	06/19/2019	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 06/17/2019  
 Reported: 06/21/2019  
 Project Name: SMALLS FED #001H  
 Project Number: 700778.123.01  
 Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 11 0' (H902080-25)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	06/19/2019	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 82.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 12 0' (H902080-26)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

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	06/19/2019	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 13 0' (H902080-27)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	06/19/2019	ND	400	100	400	0.00	QM-07	

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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 67.9 % 41-142

Surrogate: 1-Chlorooctadecane 69.9 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 13 1' (H902080-28)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 13 2' (H902080-29)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 90.9 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 13 3' (H902080-30)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 87.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 13 4' (H902080-31)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 06/17/2019  
 Reported: 06/21/2019  
 Project Name: SMALLS FED #001H  
 Project Number: 700778.123.01  
 Project Location: COG - LEA CO NM

Sampling Date: 06/14/2019  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S- 14 0' (H902080-32)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.3-129

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	06/19/2019	ND	400	100	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	06/19/2019	ND	206	103	200	3.87		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	239	119	200	8.72		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 83.8 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 15 0' (H902080-33)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.3-129

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	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 83.4 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 16 0' (H902080-34)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 16 1' (H902080-35)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.9 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 16 2' (H902080-36)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 16 3' (H902080-37)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500CI-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	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 16 4' (H902080-38)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/19/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/19/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.3-129

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	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 17 0' (H902080-39)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 18 0' (H902080-40)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.3-129

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	06/19/2019	ND	400	100	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	06/18/2019	ND	230	115	200	1.60		
DRO >C10-C28*	<10.0	10.0	06/18/2019	ND	206	103	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	06/18/2019	ND						

Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 19 0' (H902080-41)**

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	1.93	96.3	2.00	6.21		
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.83	97.2	6.00	8.14		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	285	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	97.9	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 19 1' (H902080-42)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142  
 Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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*Celestine Keene*

Celestine D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 19 2' (H902080-43)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 19 3' (H902080-44)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.3-129

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	06/19/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 19 4' (H902080-45)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 20 0' (H902080-46)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/19/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 21 0' (H902080-47)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 22 0' (H902080-48)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 97.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 22 1' (H902080-49)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 22 2' (H902080-50)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 22 3' (H902080-51)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.36		
Toluene*	<0.050	0.050	06/20/2019	ND	2.12	106	2.00	1.93		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.98	99.0	2.00	1.45		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.95	99.1	6.00	2.35		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 22 4' (H902080-52)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	2.13	107	2.00	3.01	
Toluene*	<0.050	0.050	06/20/2019	ND	2.11	105	2.00	0.289	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	2.00	100	2.00	1.24	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	6.03	101	6.00	1.36	
Total BTEX	<0.300	0.300	06/20/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730	
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880	
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 23 0' (H902080-53)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.13	107	2.00	3.01		
Toluene*	<0.050	0.050	06/20/2019	ND	2.11	105	2.00	0.289		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	2.00	100	2.00	1.24		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	6.03	101	6.00	1.36		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 73.3-129

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	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 99.3 % 41-142  
 Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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*Coley D. Keene*

Coley D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/17/2019	Sampling Date:	06/14/2019
Reported:	06/21/2019	Sampling Type:	Soil
Project Name:	SMALLS FED #001H	Sampling Condition:	** (See Notes)
Project Number:	700778.123.01	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

**Sample ID: S- 24 0' (H902080-54)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2019	ND	2.13	107	2.00	3.01		
Toluene*	<0.050	0.050	06/20/2019	ND	2.11	105	2.00	0.289		
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	2.00	100	2.00	1.24		
Total Xylenes*	<0.150	0.150	06/20/2019	ND	6.03	101	6.00	1.36		
Total BTEX	<0.300	0.300	06/20/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 73.3-129

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>16.0</b>	16.0	06/20/2019	ND	400	100	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	06/19/2019	ND	196	98.0	200	0.0730		
DRO >C10-C28*	<10.0	10.0	06/19/2019	ND	185	92.5	200	0.880		
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/17/2019 Sampling Date: 06/14/2019
Reported: 06/21/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: \*\* (See Notes)
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S- 25 0' (H902080-55)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene\*, Toluene\*, Ethylbenzene\*, Total Xylenes\*, and Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.3-129

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10\*, DRO >C10-C28\*, and EXT DRO >C28-C36.

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

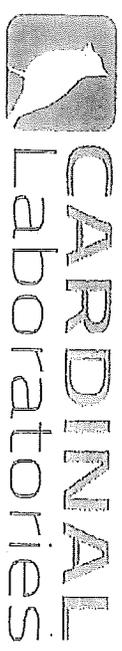
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*Celey D. Keene*

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: Talon LPE	P.O. #: 70077812301
Project Manager: David Adkins	Company: Talon LPE
Address: 408 W Texas Ave	Attn: David Adkins
City: Artesia	Address: BS 6117
Phone #: 575-746-8768	City: COG
State: NM Zip: 87210	State: zip: Sheldon
Project #: 700778.123.01	Project Owner: COG
Project Name: Smalls Fed #001H	Phone #: Hitchcock
Project Location: Lea County	Fax #:
Sampler Name: Brandon Sinclair	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			
H902080											
21	5-7 2'	G						6/19/17	1245	TPH EXT	
22	5-8 0'								1250	Chlorides	
23	5-9 8'								1255		
24	5-10 0'								1300		
25	5-11 0'								1310		
26	5-12 0'								1320		
27	5-13 0'								1330		
28	5-13 1'								1335		
29	5-13 2'								1340		
30	5-13 3'								1345		

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Relinquished By: *[Signature]* Date: 6-17-19 Time: 13:55

Received By: *[Signature]* Date: 6-17-19 Time: 13:55

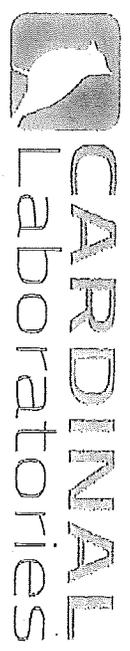
Delivered By: (Circle One)  UPS  Bus  Other

Sample Condition:  Intact  Damaged

Checked By: (Initials) *VB*

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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 (575) 393-2326 FAX (575) 393-2476

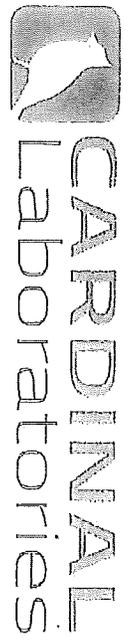
Company Name: **Talon LPE**  
 Project Manager: **David Adkins**  
 Address: **408 W Texas Ave**  
 City: **Artesia** State: **NM** Zip: **87210**  
 Phone #: **575-746-6768** Fax #:  
 Project #: **700778-123.01** Project Owner: **COG**  
 Project Name: **Smalls Fed #0014**  
 Project Location: **Lea County**  
 Sampler Name: **Brandon Sinclair**  
 P.O. #: **700778-123.01**  
 Company: **Talon LPE**  
 Attn: **David Adkins**  
 Address: **BS 6117**  
 City: **COG**  
 State: Zip:  
 Phone #: **Sheldon**  
 Fax #: **Hitchcock**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:			
H902680		G							6/19/11	1515	TPH EXT	
41	5-19 0'									1520	Chlorides	
42	5-19 1'									1525	BTEX	
43	5-19 2'									1530		
44	5-19 3'									1535		
45	5-19 4'									1545		
46	5-20 0'									1550		
47	5-21 0'									1555		
48	5-22 0'									1605		
49	5-22 1'									1610		
50	5-22 2'											

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Relinquished By: *[Signature]* Date: **6-17-19** Time: **13:55**  
 Received By: *[Signature]* Date: **6-17-19** Time: **13:55**  
 Delivered By: (Circle One) **UPS**  
 Sampler - UPS - Bus - Other: **UPS**

Sample Condition: **Good**  
 Checked By: *[Signature]*  
 Remarks: **13.9c #97**



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: <b>Talon LPE</b> Project Manager: <b>David Adkins</b> Address: <b>408 W Texas Ave</b> City: <b>Artesia</b> State: <b>NM</b> Zip: <b>87210</b> Phone #: <b>575-746-6768</b> Fax #: _____ Project #: <b>200778-12301</b> Project Owner: <b>COG</b> Project Name: <b>Smalls Fed #0014</b> Project Location: <b>Lea County</b> Sampler Name: <b>Bronson Sinclair</b>		P.O. #: <b>700778-12301</b> Company: <b>Talon LPE</b> Attn: <b>David Adkins</b> Address: <b>BS 6/17</b> City: _____ Zip: <b>COG</b> State: _____ Phone #: <b>Sheldon</b> Fax #: <b>Hitchcock</b>	
FOR LAB USE ONLY Lab I.D. _____ Sample I.D. _____ H902086		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ MATRIX: GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ PRESERV: ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: _____ TIME: _____	
Relinquished By: _____ Date: <b>6/17/19</b> Time: <b>13:55</b>		Received By: <b>Bronson Sinclair</b> Date: _____ Time: _____	
Delivered By: (Circle One) _____ Sampler - UPS - Bus - Other: <b>13:59 #97</b>		Sample Condition: Cool <input checked="" type="checkbox"/> Heat <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: _____ (Initials)	
REMARKS: _____ Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #: _____		ANALYSIS REQUEST TPH EXT <input checked="" type="checkbox"/> Chlorides <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/>	

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September 10, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SMALLS FED #001H

Enclosed are the results of analyses for samples received by the laboratory on 09/04/19 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019 Sampling Date: 09/03/2019
Reported: 09/10/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S - 5 1' (H903064-01)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 32.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 5 2' (H903064-02)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 16.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 5 3' (H903064-03)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 64.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 5 4' (H903064-04)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 496, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019 Sampling Date: 09/03/2019
Reported: 09/10/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S - 7 3' (H903064-05)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 2040, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 7 4' (H903064-06)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 3840, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 7 5' (H903064-07)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 304, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 7 6' (H903064-08)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 32.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 8 1' (H903064-09)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 64.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

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Celestine Keene (handwritten signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019 Sampling Date: 09/03/2019
Reported: 09/10/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S - 8 2' (H903064-10)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 32.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 8 3' (H903064-11)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 32.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 8 4' (H903064-12)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 208, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 8 5' (H903064-13)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 64.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 10 1' (H903064-14)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 1410, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019 Sampling Date: 09/03/2019
Reported: 09/10/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S - 10 2' (H903064-15)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 1580, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 10 3' (H903064-16)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 1330, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 10 4' (H903064-17)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 32.0, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 10 5' (H903064-18)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 288, 16.0, 09/09/2019, ND, 432, 108, 400, 0.00

Sample ID: S - 17 1' (H903064-19)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 176, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

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Celestine Keene (handwritten signature)

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019 Sampling Date: 09/03/2019
Reported: 09/10/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S - 17 2' (H903064-20)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows Result 592.

Sample ID: S - 17 3' (H903064-21)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows Result 1260.

Sample ID: S - 17 4' (H903064-22)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows Result 752.

Sample ID: S - 17 5' (H903064-23)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows Result 128.

Sample ID: S - 21 1' (H903064-24)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row for Chloride shows Result 16.0.

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019 Sampling Date: 09/03/2019
Reported: 09/10/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S - 21 2' (H903064-25)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, <16.0, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

Sample ID: S - 21 3' (H903064-26)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 32.0, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

Sample ID: S - 21 4' (H903064-27)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 32.0, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

Sample ID: S - 21 5' (H903064-28)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 528, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

Sample ID: S - 21 7' (H903064-29)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 1710, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

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Celestine Keene (handwritten signature)

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/04/2019 Sampling Date: 09/03/2019
Reported: 09/10/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S - 21 9' (H903064-30)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 2800, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

Sample ID: S - 21 11' (H903064-31)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 3240, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

Sample ID: S - 21 13' (H903064-32)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 336, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

Sample ID: S - 21 15' (H903064-33)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 16.0, 16.0, 09/09/2019, ND, 448, 112, 400, 3.64

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Celestine Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND          Analyte NOT DETECTED at or above the reporting limit
- RPD        Relative Percent Difference
- \*\*          Samples not received at proper temperature of 6°C or below.
- \*\*\*        Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

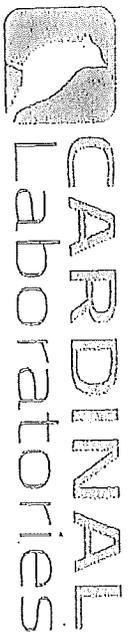
\*=Accredited Analyte

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*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

311510

ANALYSIS REQUEST

Company Name: Talos LPE P.O. #:  
 Project Manager: David Collins Company: COG  
 Address: 408 W Texas Ave Attn: Sheldon Hitchcock  
 City: Artesia State: NM Zip: 88210 Address: 2208 W Main  
 Phone #: 575-746-8268 Fax #: City: Artesia  
 Project #: 200228.123.01 Project Owner: COG State: NM Zip: 88210  
 Project Name: Swalls Federal #0014 Phone #:  
 Project Location: Lea County Fax #:

Sampler Name: Brandon Sincifair

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G) GRAB OR (C) COMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:			
H963064		G									9/3/19	1219	✓ Chlorides
	11											225	
	12											227	
	13											245	
	14											247	
	15											249	
	16											251	
	17											300	
	18											325	
	19											327	

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Relinquished By: R. S. L. Date: 9-4-19 Received By: Sheldon Hitchcock  
 Time: 12:30

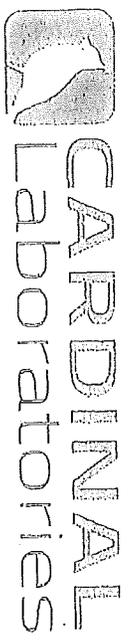
Delivered By: (Circle One) 1.1c 497 Sample Condition: Intact  
 Sampler - UPS - Bus - Other: Cardinal 1.5c  Yes  No  No  No

Checked By: (Initials) TS

REMARKS: Rush

PHONE RESULT:  Yes  No ADD'l PHONE #:  
 FAX RESULT:  Yes  No ADD'l FAX #:

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

815-570

ANALYSIS REQUEST

Company Name: Talos LPE P.O. #:  
 Project Manager: David Adkins Company: COG  
 Address: 408 W Texas Ave Attn: Sheldon Hitchcock  
 City: Artesia State: NM Zip: 88210 Address: 2208 W Main  
 Phone #: 575-746-8768 Fax #: Project Owner: COG City: Artesia  
 Project #: Z00ZZK.123.01 State: NM Zip: 88210  
 Project Name: Smalls Federal #001H Phone #:   
 Project Location: Lea County Fax #:   
 Sampler Name: Broderick Sinclair

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX							DATE	TIME	ANALYSIS	
		(C) RAB OR (C) COMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:				ICE / COOL
4905064			5									9/3/19	1329	✓ Chlorides
21	5-17 3													
22	5-17 4													
23	5-17 5													
24	5-21 1													
25	5-21 2													
26	5-21 3													
27	5-21 4													
28	5-21 5													
29	5-21 7													
30	5-21 9													

PLEASE NOTE: Using our transport containers and filling and sealing requires competency for any chain custody violation based in contract or law, 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 interruption, 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 express or implied warranties.

Relinquished By: [Signature] Date: 9-4-19 Received By: [Signature]  
 Relinquished By: [Signature] Date: 9-4-19 Received By: [Signature]  
 Time: 11:30

Delivered By: (Circle One) 1.12 # 497 Sample Condition:  Intact  Cool  Yes  No  No  
 Sampler - UPS - Bus - Other: Contract 158 Checked By: [Signature] (Initials)

REMARKS: Rush

\* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



# CARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talpa LPE P.O. #: 315170 ANALYSIS REQUEST

Project Manager: David Adkins Company: COG

Address: 408 W Texas Ave Attn: Skeldon Hitchcock

City: Artesia State: NM Zip: 88210 Address: 2208 W Main

Phone #: 575-246-8768 Fax #:  City: Artesia

Project #: 700728.123.01 Project Owner: COG State: NM Zip: 88210

Project Name: Smalls Federal #0014 Phone #:

Project Location: Lea County Fax #:

Sampler Name: Bradford Sinclair

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G) GRAB OR (C) COMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:					
<u>H903044</u>		<u>G</u>				<u>✓</u>					<u>✓</u>	<u>9/3/19</u>	<u>1444</u>	<u>✓</u>	<u>Chlorides</u>
<u>31</u>	<u>S-21</u>	<u>11</u>													
<u>32</u>	<u>S-21</u>	<u>13</u>													
<u>33</u>	<u>S-21</u>	<u>15</u>													

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Relinquished By: [Signature] Date: 9-4-19 Received By: [Signature] Phone Result:  Yes  No Add'l Phone #:

Relinquished By: [Signature] Time: 11:30 Received By: [Signature] Fax Result:  Yes  No Add'l Fax #:

Delivered By: (Circle One) 1.12 # 497 Sample Condition:  Cool  Intact  Yes  No

Sampler - UPS - Bus - Other: Inspected 1.5c  No  No

CHECKED BY: [Signature] (Initials) AD

REMARKS: RYSK

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

November 14, 2019

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SMALLS FED #001H

Enclosed are the results of analyses for samples received by the laboratory on 11/13/19 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2019 Sampling Date: 11/12/2019
Reported: 11/14/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S- 26 0'-1' (H903861-01)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 16.0, 16.0, 11/14/2019, ND, 432, 108, 400, 3.77

Sample ID: S- 26 2' (H903861-02)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 16.0, 16.0, 11/14/2019, ND, 432, 108, 400, 3.77

Sample ID: S- 26 3' (H903861-03)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 16.0, 16.0, 11/14/2019, ND, 432, 108, 400, 3.77

Sample ID: S- 27 0'-1' (H903861-04)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 16.0, 16.0, 11/14/2019, ND, 432, 108, 400, 3.77

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene (signature)

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 11/13/2019 Sampling Date: 11/12/2019
Reported: 11/14/2019 Sampling Type: Soil
Project Name: SMALLS FED #001H Sampling Condition: Cool & Intact
Project Number: 700778.123.01 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Sample ID: S- 28 0'-1' (H903861-05)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, <16.0, 16.0, 11/14/2019, ND, 432, 108, 400, 3.77

Sample ID: S- 29 0'-1' (H903861-06)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, 16.0, 16.0, 11/14/2019, ND, 432, 108, 400, 3.77

Sample ID: S- 29 2' (H903861-07)

Table with 10 columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row 1: Chloride, <16.0, 16.0, 11/14/2019, ND, 432, 108, 400, 3.77

Cardinal Laboratories

\*=Accredited Analyte

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

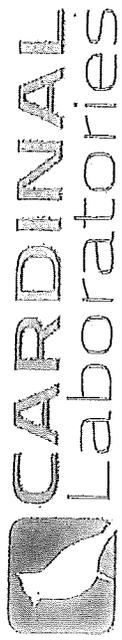
Cardinal Laboratories

\*=Accredited Analyte

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*Celey D. Keene*

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: **TALON LPE** P.O. #:  
 Project Manager: **DAVID ADKINS**  
 Address: **108 W. TEXAS** State: **NM** Zip: **88310**  
 City: **ARTESIA** Phone #: **575-746-8768** Fax #:  
 Project #: **100778.123.01** Project Owner: **CONCHO**  
 Project Name: **SMALLS FED # 001**  
 Project Location: **LEA COUNTY**  
 Sampler Name: **MICHAEL COLLIER**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	MATRIX				PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
			GROUNDWATER	WASTEWATER	SOIL	SLUDGE					
4903861	1 S-26 0-1'	6	<input checked="" type="checkbox"/>	11-12-19	1:40pm	TOTAL CHLORIDES					
	2 S-26 2'	1	<input checked="" type="checkbox"/>		1:45pm						
	3 S-26 3'	1	<input checked="" type="checkbox"/>		1:50pm						
	4 S-27 0-1'	1	<input checked="" type="checkbox"/>		2:00pm						
	5 S-28 0-1'	1	<input checked="" type="checkbox"/>		2:10pm						
	6 S-29 0-1'	1	<input checked="" type="checkbox"/>		2:30pm						
	7 S-29 2'	1	<input checked="" type="checkbox"/>		2:35pm						

FOR LAB USE ONLY

OTHER: ICE/COOL  ACID/BASE:  OTHER:

Received By: *Michael Collier* Date: 11-13-19 Time: 15:45

Received By: *Quinn Aldridge* Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) 4.12 #97 Sample Condition: Cool  Intact

Sampler - UPS - Bus - Other: *Consented 4.52* Yes  No

Phone Result:  Yes  No  Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No  Add'l Fax #: \_\_\_\_\_

REMARKS: RUSH

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