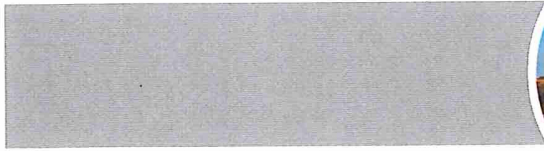


G5WLO-191125-C-1410



talonlpe.com • 866.742.0742



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:

Table I Closure Criteria for Soils Impacted by a Release			
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	Cl 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



© 2018 Google
Image Landsat / Copernicus

Google Earth

Carlsbad

Hobbs

Smalls Fed 1H

285

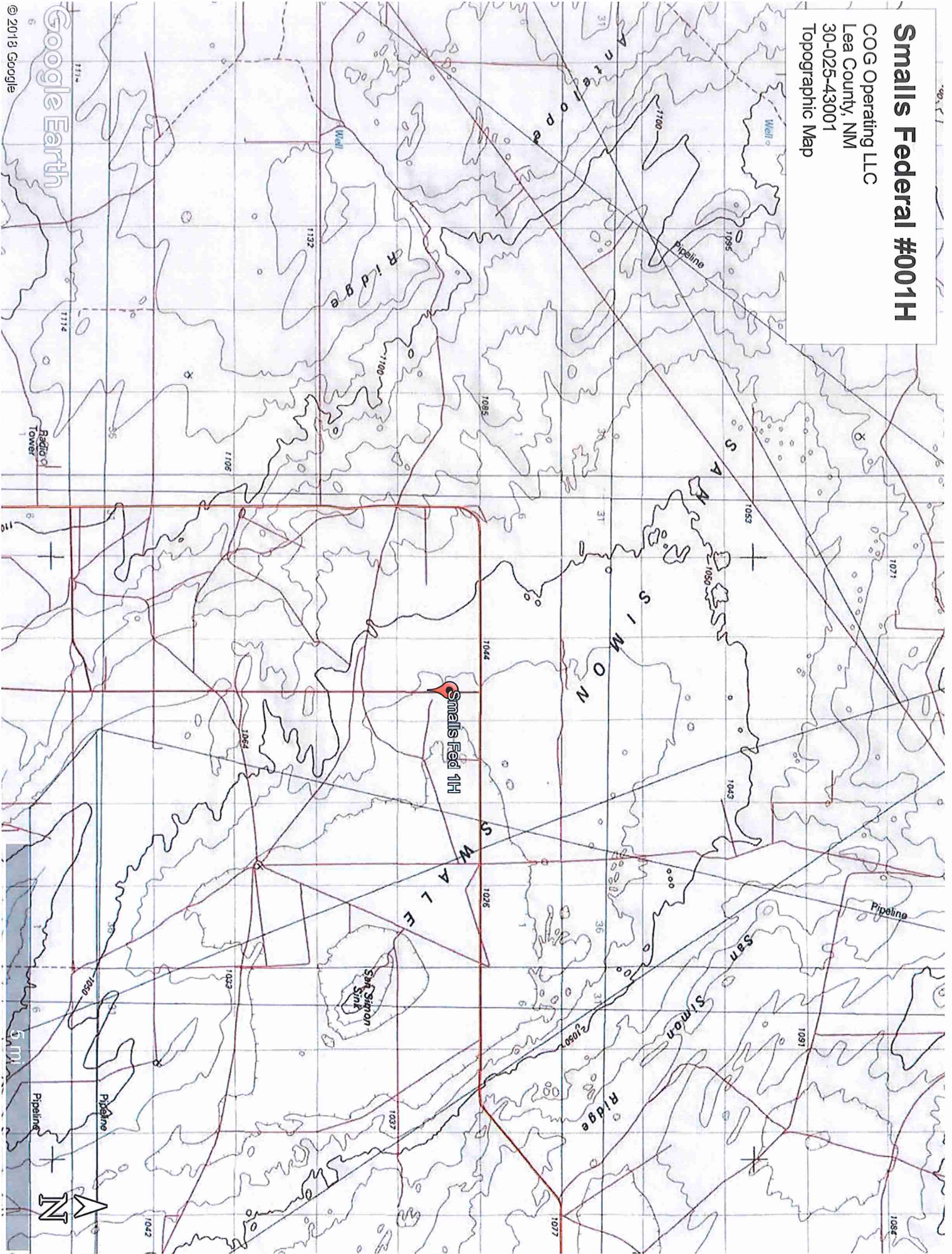
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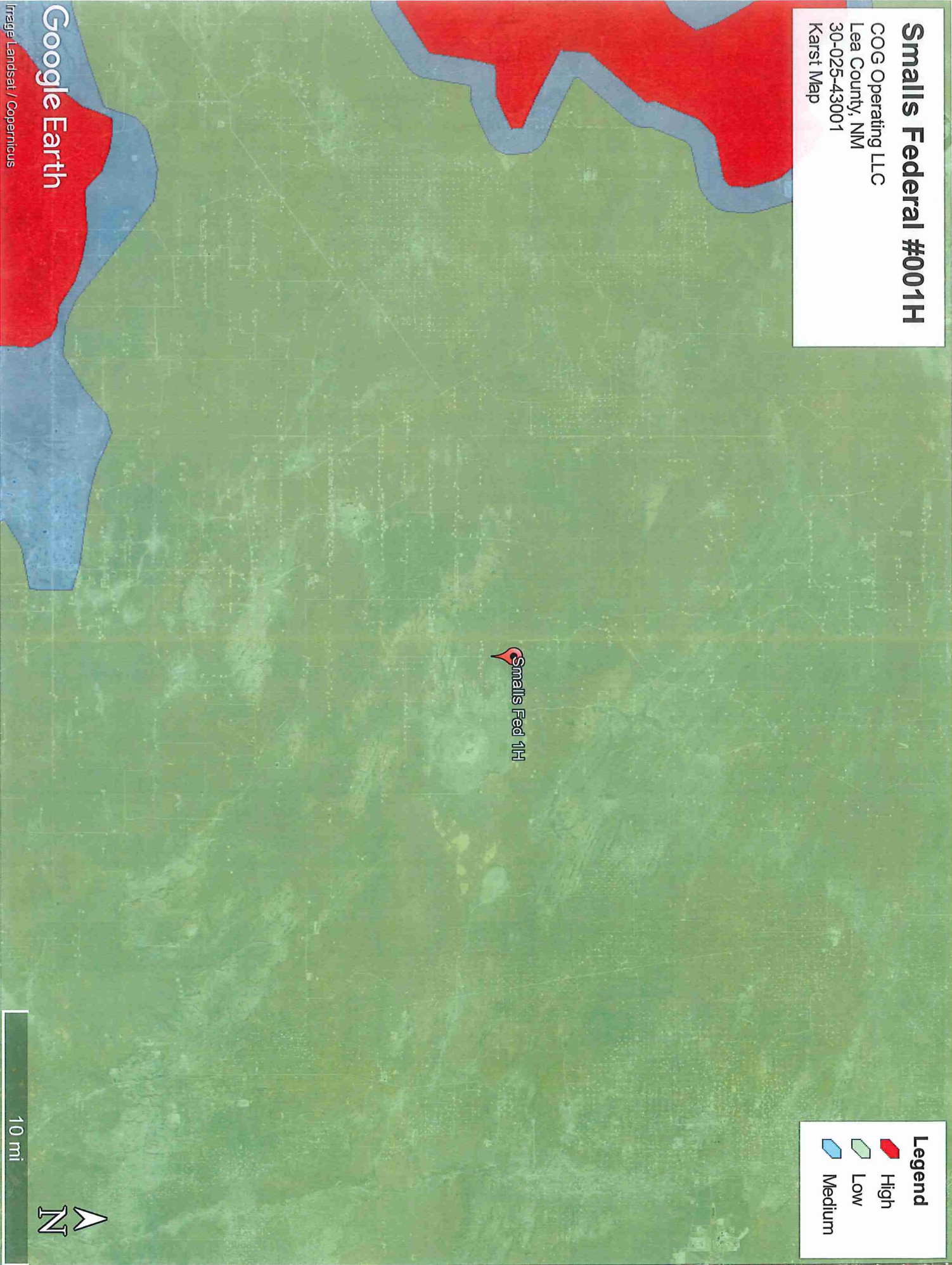
115



20 mi

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





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

Legend
High
Low
Medium

Smalls Fed 1H

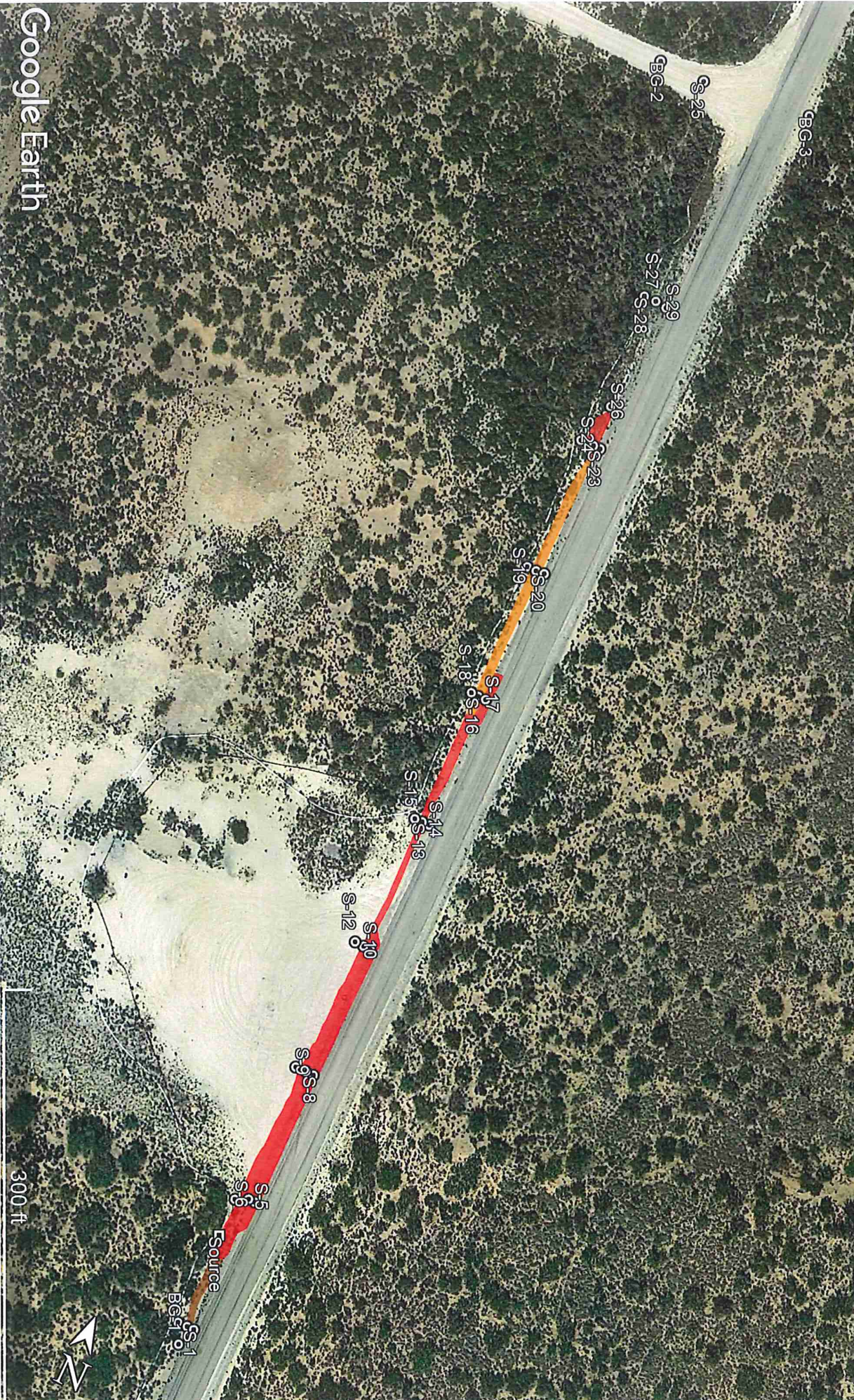
Google Earth

Image Landsat / Copernicus

10 mi



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



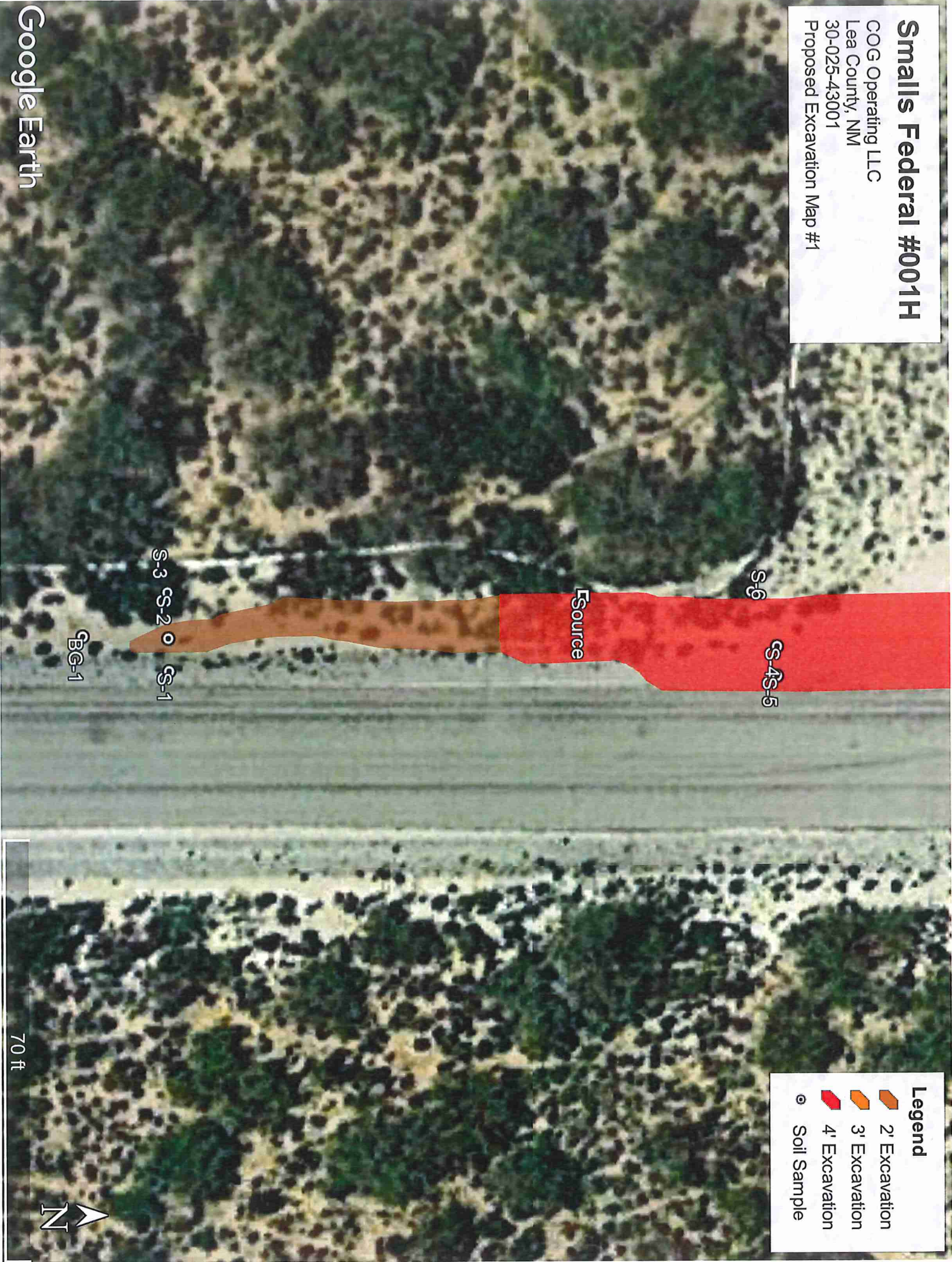
Legend

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

Google Earth

Smalls Federal #001H

COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #1



Smalls Federal #001H
COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #2

S-12 S-10
S-11

S-9 S-7S-8

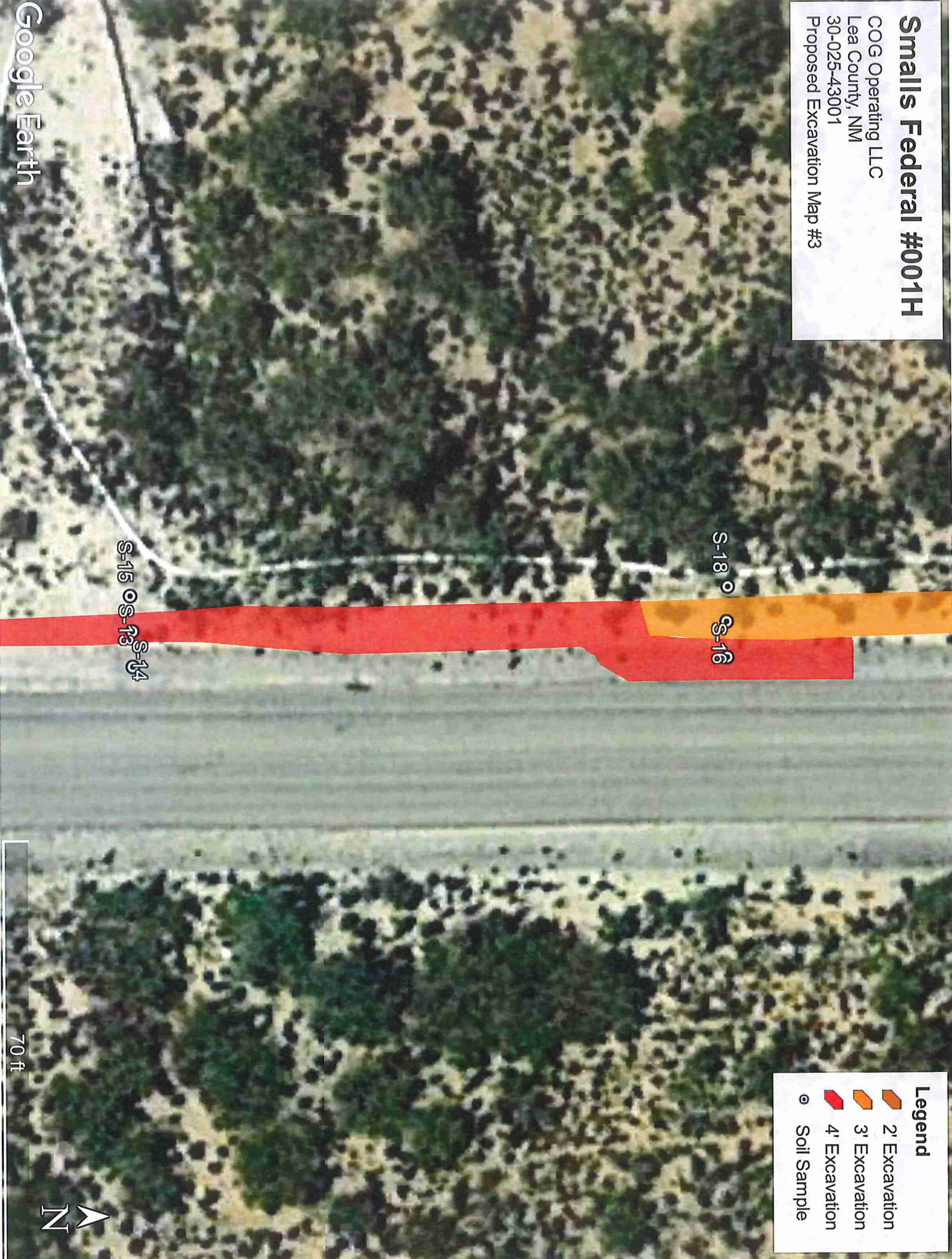
- Legend**
- 2' Excavation
 - 3' Excavation
 - 4' Excavation
 - Soil Sample

Google Earth

70 ft



Smalls Federal #001H
COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #3

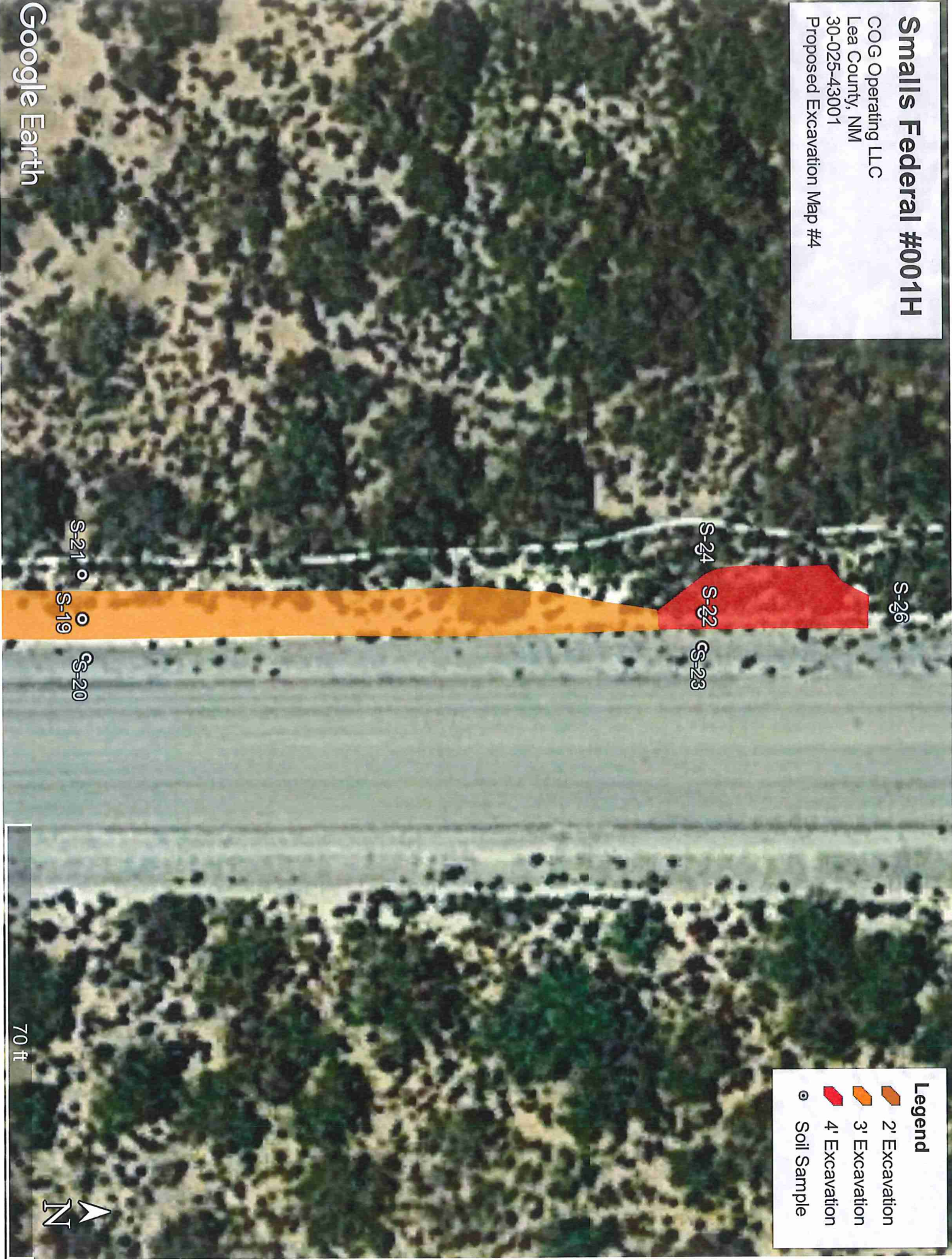


Google Earth

Legend

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

Smalls Federal #001H
COG Operating LLC
Lea County, NM
30-025-43001
Proposed Excavation Map #4





APPENDIX II

SOIL SURVEY

GROUNDWATER DATA

FEMA FLOOD MAP

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

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)

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

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

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	POD Sub-Code	basin	County	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01730 POD1	CP	LE		2	2	1	16	23S	34E		643549	3575824	815	594	200	394
CP 01502 POD2	CP	LE		4	3	3	05	23S	34E		642074	3577676	1989	680	300	380
CP 00556 POD1	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



32°19'16.90"N



Legend

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

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

OTHER AREAS OF FLOOD HAZARD	NO SCREEN Effective LOMRS
OTHER AREAS	Area of Minimal Flood Hazard (Zone X)
GENERAL STRUCTURES	Area of Undetermined Flood Hazard (Zone X) Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall

OTHER FEATURES	Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
----------------	--

MAP PANELS	Digital Data Available No Digital Data Available Unmapped
------------	---

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

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, FIRW panel number, and FIRW effective date. Map images for unmapped and unmapped areas cannot be used for regulatory purposes.

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

Page 2

State of New Mexico
Oil Conservation Division

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



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.

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
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: 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, 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 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



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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: 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 (PIE) 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	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

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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: 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 (PIL) 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

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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- 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, 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 103 % 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
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 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 (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	<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



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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 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, SM4500Cl-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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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 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 (PIL) 100 % 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	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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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 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 (PID) 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	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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*—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
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, 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	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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*=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
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- 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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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- 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 (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	<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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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- 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
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- 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 (PIL) 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	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



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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- 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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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- 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 (PIL) 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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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- 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 (PIE) 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
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- 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 (PIL) 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	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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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- 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 (PIL) 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	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
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 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 (PIL) 110 % 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	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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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 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, SM4500Cl-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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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 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 (PIE) 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
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- 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 (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	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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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- 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, SM4500CI-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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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- 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 (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	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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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- 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 (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	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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* = 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
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- 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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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- 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, 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	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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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 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 (PII) 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
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- 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 (PID) 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	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
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- 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 (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	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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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- 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 (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	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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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- 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 (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	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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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- 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 (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	<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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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- 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, SM4500CI-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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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- 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 (PIL) 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
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- 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
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- 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 (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	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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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- 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, SM4500Cl-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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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- 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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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- 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 (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	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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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- 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 (PII) 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	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
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- 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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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- 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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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 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, SM4500Cl-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
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- 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 (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	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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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
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- 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 (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	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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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- 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 (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	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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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- 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 (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	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
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- 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 (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	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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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- 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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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- 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
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- 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 (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	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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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- 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 (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	16.0	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 102 % 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- 25 0' (H902080-55)

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 (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	416	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 106 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Tolon LPE		P.O. #: 700778-12301	
Project Manager: David Adkins		Company: Tolon LPE	
Address: 408 W Texas Ave		Attn: David Adkins	
City: Artesia		Address:	
Phone #: 575-746-8768 Fax #:		City: COG	
Project #: 700778-123.01 Project Owner: COG		State: zip: Sheldon	
Project Name: Shells 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	OTHER :	ACID/BASE:			
H902080	B6-1 0-1'										6/14/19	1030	TPH EXT
	B6-2 0-1'										1040		Chlorides
	B6-3 0-1'										1050		BTEX
	S5-1 0'										1100		
	S5-2 0'										1105		
	S5-2 1'										1110		
	S5-2 2'										1115		
	S5-2 3'										1120		
	S5-2 4'										1125		
	S5-3 0'										1135		

Relinquished By: David Adkins	Date: 6-17-19	Received By: Brandon Sinclair	Date: 6-17-19
Time: 13:55		Time: 13:55	
Relinquished By: Brandon Sinclair		Received By: Brandon Sinclair	
Time: 13:55		Time: 13:55	

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
UPS - Bus - Other:	Cool Intact	
	Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Yes <input type="checkbox"/> No <input type="checkbox"/>	

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 #:
REMARKS:	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon LPE		P.O. #: 700778.12601	
Project Manager: David Adkins		Company: Talon LPE	
Address: 408 W Texas Ave		Attn: David Adkins	
City: Artesia	State: NM	Zip: 88210	
Phone #: 575-746-6768	Fax #:		
Project #: 700778.123.01	Project Owner: COG	City: COG	
Project Name: Smalls Fed #001H	State:	Zip: Sheldon	
Project Location: Lea County	Phone #:	Hatchcock	
Sampler Name: Brandon Sinclair	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:									ICE / COOL
A902080		G				✓				✓	6/19/99	1140	✓	TPH EXT	✓	Chlorides	✓	BTEX	
11	5-3 1'																		
12	5-4 0'																		
13	5-4 1'																		
14	5-4 2'																		
15	5-4 3'																		
16	5-4 4'																		
17	5-5 0'																		
18	5-6 0'																		
19	5-7 0'																		
20	5-7 1'																		

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Relinquished By:	Date: 6-17-19	Received By:	Date: 6-17-19
Relinquished By:	Time: 13:55	Received By:	Time:

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS Bus Other:	<input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)

13.9 ° F at 7 ft depth

REMARKS:



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon LPE		P.O. #: 700778/12301	
Project Manager: David Adkins		Company: Talon LPE	
Address: 408 W Texas Ave		Attn: David Adkins	
City: Artesia	State: NM Zip: 88210	Address: 65 6/17	
Phone #: 575-746-8768	Fax #: 	City: COG	
Project #: 700778.123.01	Project Owner: COG	State: Sheldon	
Project Name: Smalls Fed #001H		Phone #: Hitchcock	
Project Location: Lea County		Fax #: 	
Sampler Name: Brandon Siefelair			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH EXT	Chlorides	BT EX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H902080	5-7 2'	G									6/19/17	1245			
	22 5-8 0'											1250			
	23 5-9 0'											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: **David Adkins** Date: **6-17-19** Received By: **Brandon Siefelair** Date: **6-17-19** Time: **13:55**

Delivered By: (Circle One) **UPS** Sample Condition: **Intact** Checked By: **VB**

Sampler - UPS - Bus - Other: **13.9.0 #97**

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Talon LPE</u>		P.O. #: <u>700778.123.01</u>	
Project Manager: <u>David Addkins</u>		Company: <u>Talon LPE</u>	
Address: <u>408 W Texas Ave</u>		City: <u>Artesia</u>	
State: <u>NM</u> Zip: <u>88210</u>		Attn: <u>David Addkins</u>	
Phone #: <u>575-746-8768</u> Fax #: <u></u>		Address: <u>BS 6117</u>	
Project #: <u>700778.123.01</u> Project Owner: <u>COG</u>		City: <u>COG</u>	
Project Name: <u>Smalls Fed #0014</u>		State: <u></u> Zip: <u></u>	
Project Location: <u>Lea County</u>		Phone #: <u>Sheldon</u>	
Sample Name: <u>Bradley S. Sinclair</u>		Fax #: <u>Hitchcock</u>	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
4902680	5-19 0'	G									6/14/17	1515	TPH EXT
44	5-19 1'											1520	Chlorides
43	5-19 2'											1525	BTEX
44	5-19 3'											1530	
45	5-19 4'											1535	
46	5-20 0'											1545	
47	5-21 0'											1550	
48	5-22 0'											1555	
49	5-22 1'											1605	
50	5-22 2'											1610	

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)
13.9c #97	<input type="checkbox"/> Yes <input type="checkbox"/> No	ya.

Relinquished By:	Date: <u>6-17-19</u>	Received By:	Date: <u>6-17-19</u>
<u>David Sinclair</u>	Time: <u>13:55</u>	<u>David Sinclair</u>	Time: <u></u>

Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:		

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

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

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



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

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.

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)

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	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/09/2019	ND	432	108	400	0.00	

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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)

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	09/09/2019	ND	432	108	400	0.00	

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

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	09/09/2019	ND	432	108	400	0.00	

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

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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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: 09/04/2019
Reported: 09/10/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 09/03/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

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	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	09/09/2019	ND	432	108	400	0.00	

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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)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	09/09/2019	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/09/2019	ND	432	108	400	0.00	

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

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	09/09/2019	ND	448	112	400	3.64	

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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)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/09/2019	ND	448	112	400	3.64	

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	09/09/2019	ND	448	112	400	3.64	

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	09/09/2019	ND	448	112	400	3.64	

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2019	ND	448	112	400	3.64	

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

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	09/09/2019	ND	448	112	400	3.64	

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Caley 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)

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	09/09/2019	ND	448	112	400	3.64	

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

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	09/09/2019	ND	448	112	400	3.64	

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

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	09/09/2019	ND	448	112	400	3.64	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/09/2019	ND	448	112	400	3.64	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	09/09/2019	ND	448	112	400	3.64	

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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:	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)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/09/2019	ND	448	112	400	3.64	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	09/09/2019	ND	448	112	400	3.64	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/09/2019	ND	448	112	400	3.64	

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

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	09/09/2019	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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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

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

Celey D. Keene, Lab Director/Quality Manager

13 10 01 98d



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: <u>Calan LP</u>	P.O. #:
Project Manager: <u>David Adkins</u>	Company: <u>COG</u>
Address: <u>408 W Texas Ave</u>	Attn: <u>Sheldon Hitchcock</u>
City: <u>Artesia</u>	Address: <u>2208 W Main St</u>
State: <u>NM</u> Zip: <u>88210</u>	City: <u>Artesia</u>
Phone #: <u>575-746-8768</u> Fax #:	State: <u>NM</u> Zip: <u>88210</u>
Project #: <u>700778.123.01</u> Project Owner: <u>COG</u>	Phone #:
Project Name: <u>Smalls Federal #0014</u>	Fax #:
Project Location: <u>Lea County</u>	
Sampler Name: <u>Brandon Sinclair</u>	

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	MATRIX					DATE	TIME	ANALYSIS REQUEST									
		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL												
1	5-5 1'																	
2	5-5 2'																	
3	5-5 3'																	
4	5-5 4'																	
5	5-7 3'																	
6	5-7 4'																	
7	5-7 5'																	
8	5-7 6'																	
9	5-8 1'																	
10	5-8 2'																	

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Relinquished By: <u>David Adkins</u>	Date: <u>9-4-19</u>	Received By: <u>Sheldon Hitchcock</u>	Date: <u>9-4-19</u>	Time: <u>16:30</u>
Relinquished By: <u>Brandon Sinclair</u>	Date: <u>9-4-19</u>	Received By: <u>Sheldon Hitchcock</u>	Date: <u>9-4-19</u>	Time: <u>16:30</u>
Delivered By: (Circle One) <u>1.1c</u>	# <u>97</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>VS</u>	
Sampler - UPS - Bus - Other: <u>Delivered 1.5c</u>				

REMARKS: NO RUSH per Customer

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CARDINAL

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: <u>Valley LPF</u>		P.O. #:									
Project Manager: <u>David Alkins</u>		Company: <u>COG</u>									
Address: <u>408 W Texas Ave</u>		Attn: <u>Sheldon Hitchcock</u>									
City: <u>Artesia</u>		Address: <u>2208 W Main</u>									
State: <u>NM</u> Zip: <u>88210</u>		City: <u>Artesia</u>									
Phone #: <u>575-746-8268</u> Fax #:		State: <u>NM</u> Zip: <u>88210</u>									
Project #: <u>700778.123.01</u> Project Owner: <u>COG</u>		Phone #:									
Project Name: <u>Smalls Federal #0014</u>		Fax #:									
Project Location: <u>Lea County</u>											
Sampler Name: <u>Bradley Sinclair</u>											
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	MATRIX		PRESERV.	SAMPLING						
		(G)RAB OR (C)OMP.	# CONTAINERS								
<u>H96364</u> 11 5-8 3' 12 5-8 4' 13 5-8 5' 14 5-10 1' 15 5-10 2' 16 5-10 3' 17 5-10 4' 18 5-10 5' 19 5-17 1' 20 5-17 2'	G 1 1 1 1 1 1 1 1 1	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	
		DATE	TIME								
		9/5/19	1219								
		1225									
		1227									
		1245									
		1247									
		1249									
		1251									
		1300									
1325											
1327											
		Chlorides									

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Relinquished By: David Alkins Date: 9-4-19 Received By: Sheldon Hitchcock Date: 9-4-19

Delivered By: (Circle One) 1.1c # 497 Sample Condition: Intact CHECKED BY: TS

Sampler: UPS - Bus - Other: Cardinal 1.5c Yes ☒ No ☐ No ☐

REMARKS: Rush

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 1010 LPE

Project Manager: David Adkins

Address: 408 W Texas Ave

City: Artesia

Phone #: 575-774-8268 Fax #:

Project #: 700228.123.01 Project Owner: COG

Project Name: Smalls Federal #0014

Project Location: Lea County

Sampler Name: Brandon Sinclair

FOR LAB USE ONLY

P.O. #:

Company: COG

Attn: Sheldon Hitchcock

Address: 2208 W Main

City: Artesia

State: NM Zip: 88210

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
4905064		G								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'											

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Relinquished By:

Reinforced By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sample Condition

Sampler - UPS - Bus - Other:

Sample Condition

Checked By:

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Phone Result:

Fax Result:

REMARKS:

✓

✓

✓

✓

✓

✓

✓

✓

✓



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Coley 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
Reported: 11/14/2019
Project Name: SMALLS FED #001H
Project Number: 700778.123.01
Project Location: COG - LEA CO NM

Sampling Date: 11/12/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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

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	11/14/2019	ND	432	108	400	3.77	

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

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	11/14/2019	ND	432	108	400	3.77	

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

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	11/14/2019	ND	432	108	400	3.77	

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

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	11/14/2019	ND	432	108	400	3.77	

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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:	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)

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	11/14/2019	ND	432	108	400	3.77	

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

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	11/14/2019	ND	432	108	400	3.77	

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

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	11/14/2019	ND	432	108	400	3.77	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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