





## 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
☐Yes ⊠No	Within 300 feet of any continuously flowing wa any other significant watercourse	tercourse or
□Yes ⊠No	Within 200 feet of any lakebed, sinkhole or pla	ya lake
□Yes ⊠No	Within 300 feet from an occupied permanent reschool, hospital, institution or church	esidence,
∐Yes ⊠No	Within 500 feet of a spring or a private, domes well used by less than five households for dom watering purposes	
□Yes ⊠No □Yes ⊠No	Within 1000 feet of any fresh water well or spri Within incorporated municipal boundaries or w Municipal fresh water well field covered under ordinance adopted pursuant to Section 3-2703	ithin a defined a municipal
☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No ☐Yes ⊠No	Within 300 feet of a wetland Within the area overlying a subsurface mine Within an unstable area 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 CI 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	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl
ID	(ft.)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
19.15	Criteria .29.12 MAC	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
	0	ND	ND	ND	ND	ND	0	ND
	1	ND	ND	ND	ND	ND	0	1880
S-2	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
3-3	1	ND	ND	ND	ND	ND	0	ND
	0	ND	ND	ND	ND	ND	0	7600
	1	ND	ND	ND	ND	ND	0	4000
S-4	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
	0	ND	ND	ND	ND	ND	0	3040
S-7	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
	0	ND	ND	ND	ND	ND	0	3360
	1	ND	ND	ND	ND	ND	0	3600
S-13	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	Depth	BTEX	Benzene	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
Closure	(ft.) Criteria	mg/kg	mg/kg	mg/kg	mg/kg	IIIg/ kg		
	.29.12	50 mg/kg	10 mg/kg				100	600
	1AC		0/ 0				mg/kg	mg/kg
	0	ND	ND	ND	ND	ND	0	4960
	1	ND	ND	ND	ND	ND	0	3520
S-16	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
	0	ND	ND	ND	285	97.9	382.9	3600
	1	ND	ND	ND	ND	ND	0	3000
S-19	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
	0	ND	ND	ND	ND	ND	0	4880
	1	ND	ND	ND	ND	ND	0	2480
S-22	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
19.15	Criteria .29.12 IAC	50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
	1		NT	NT	NT	NT	0	32
6.5	2	NT	NT	NT	NT	NT	0	16
S-5	3	NT	NT	NT	NT	NT	0	64
	4	NT	NT	NT	NT	NT	0	496
	3	NT	NT	NT	NT	NT	0	2040
	4	NT	NT	NT	NT	NT	0	3840
S-7	5	NT	NT	NT	NT	NT	0	304
	6	NT	NT	NT	NT	NT	0	32
	1	NT	NT	NT	NT	NT	0	64
	2	NT	NT	NT	NT	NT	0	32
S-8	3	NT	NT	NT	NT	NT	0	32
	4	NT	NT	NT	NT	NT	0	208
	5	NT	NT	NT	NT	NT	0	64
	2	NT	NT	NT	NT	NT	0	1580
	3	NT	NT	NT	NT	NT	0	1330
S-10	4	NT	NT	NT	NT	NT	0	32
	5	NT	NT	NT	NT	NT	0	288
	1	NT	NT	NT	NT	NT	0	176
	2	NT	NT	NT	NT	NT	0	592
S-17	3	NT	NT	NT	NT	NT	0	1260
	4	NT	NT	NT	NT	NT	0	752
	5	NT	NT	NT	NT	NT	0	128
	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
S-21	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)
19.15	Criteria .29.12 MAC	50 mg/kg	10 mg/kg				100 mg/kg	600 mg/kg
	0-1	NT	NT	NT	NT	NT	0	16
S-26	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

Brandon Sinclar

**Environmental Scientist** 

David J. Adkins District Manager

Attachments:

Appendix I Site Maps

Appendix II Soil Survey, Groundwater Data & FEMA Flood Map

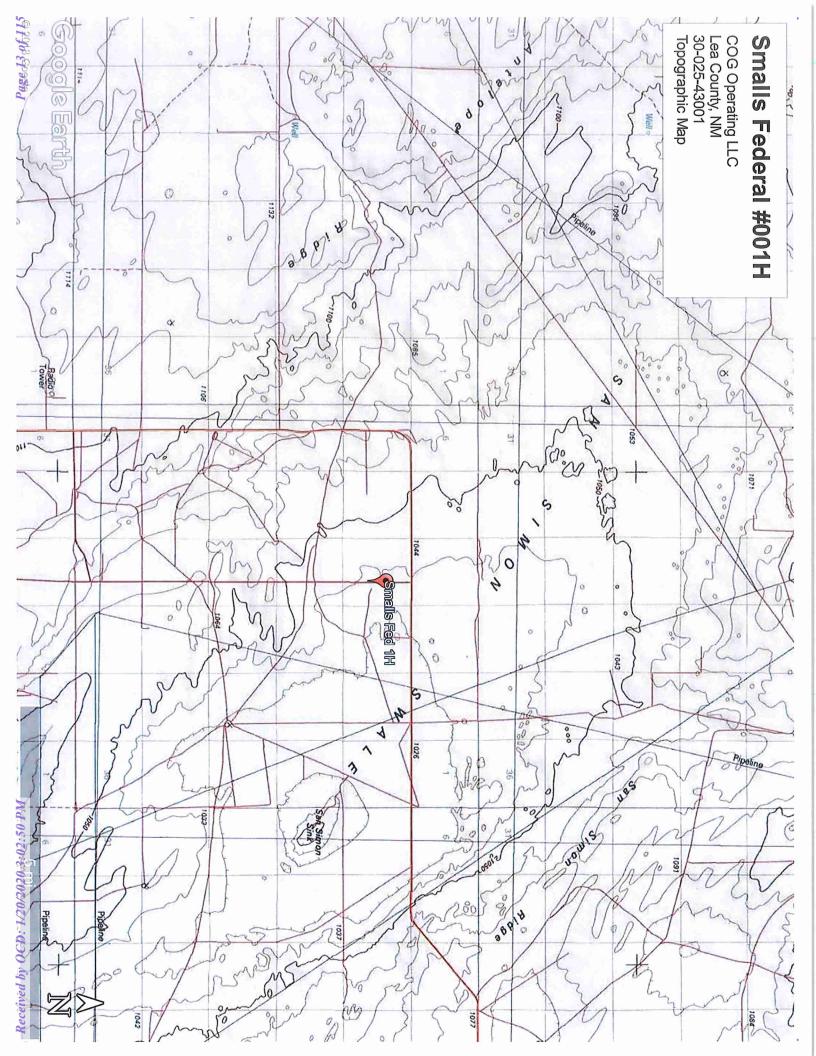
Appendix III Initial C-141 Appendix IV Laboratory Data



# <u>APPENDIX I</u>

# SITE MAPS





Smalls Federal #001H

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

Low

High

Medium

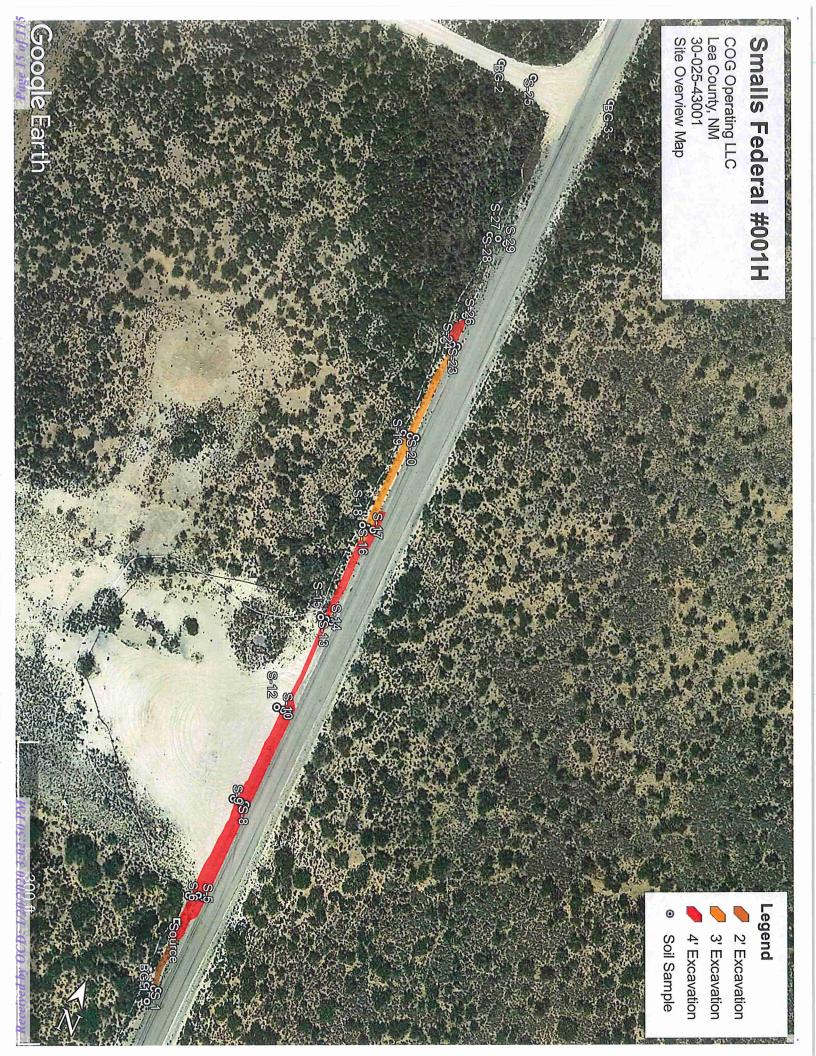
Legend

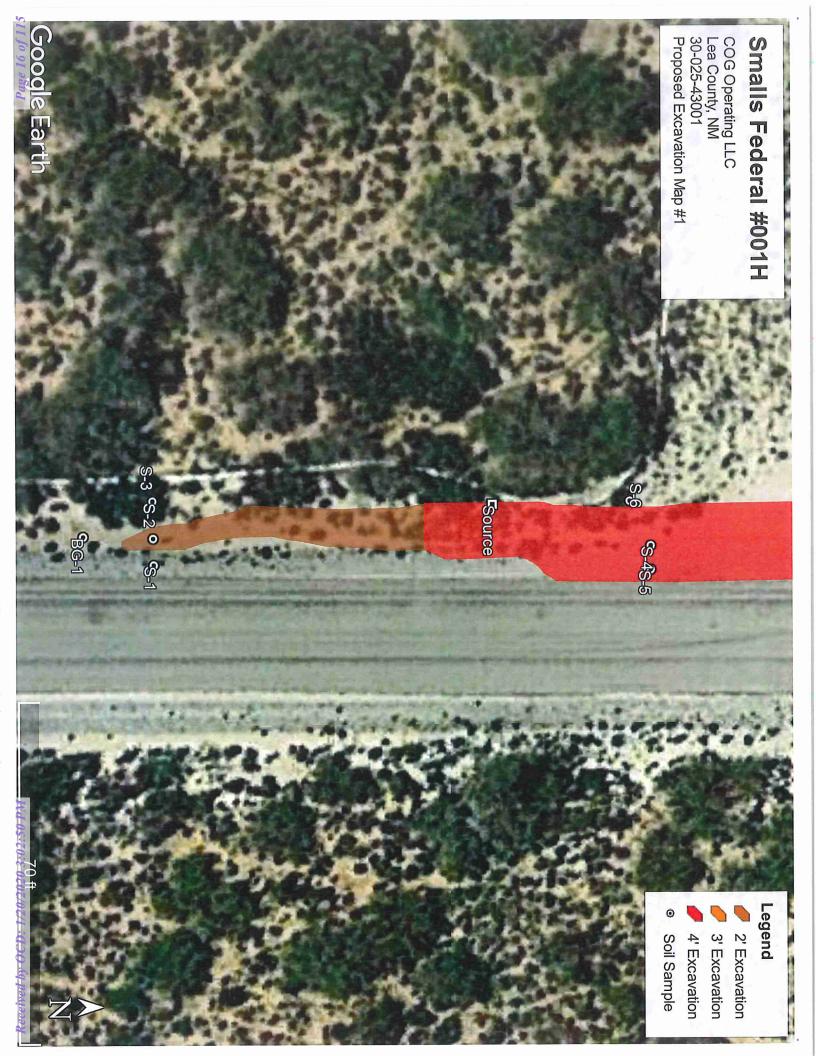
Smalls Fed 1H

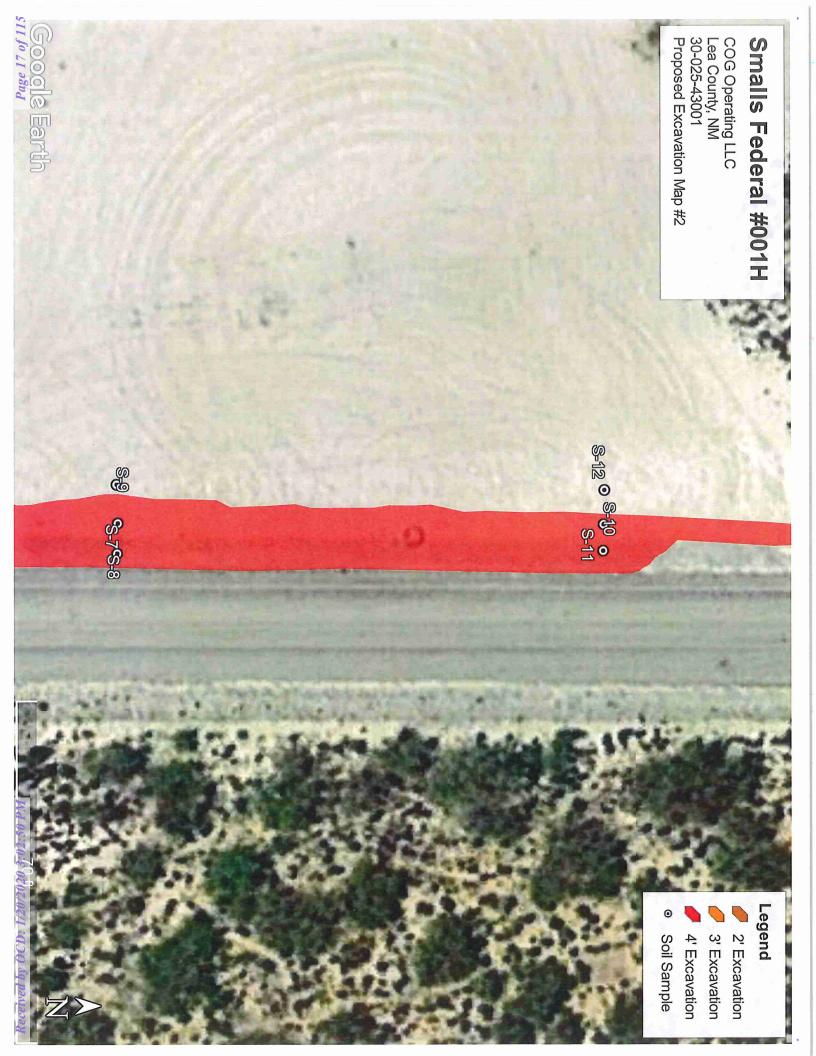
Received by OCD 1/20/2020 3:02:50 PM

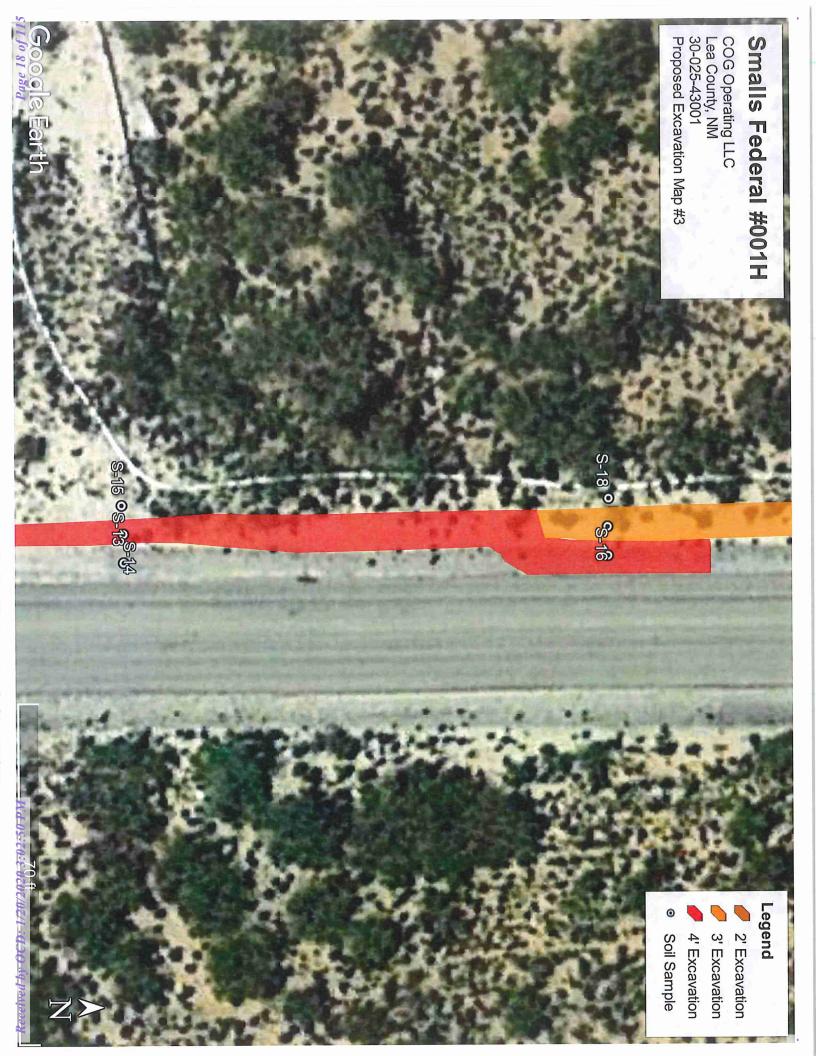
cirrigate possible copernicus

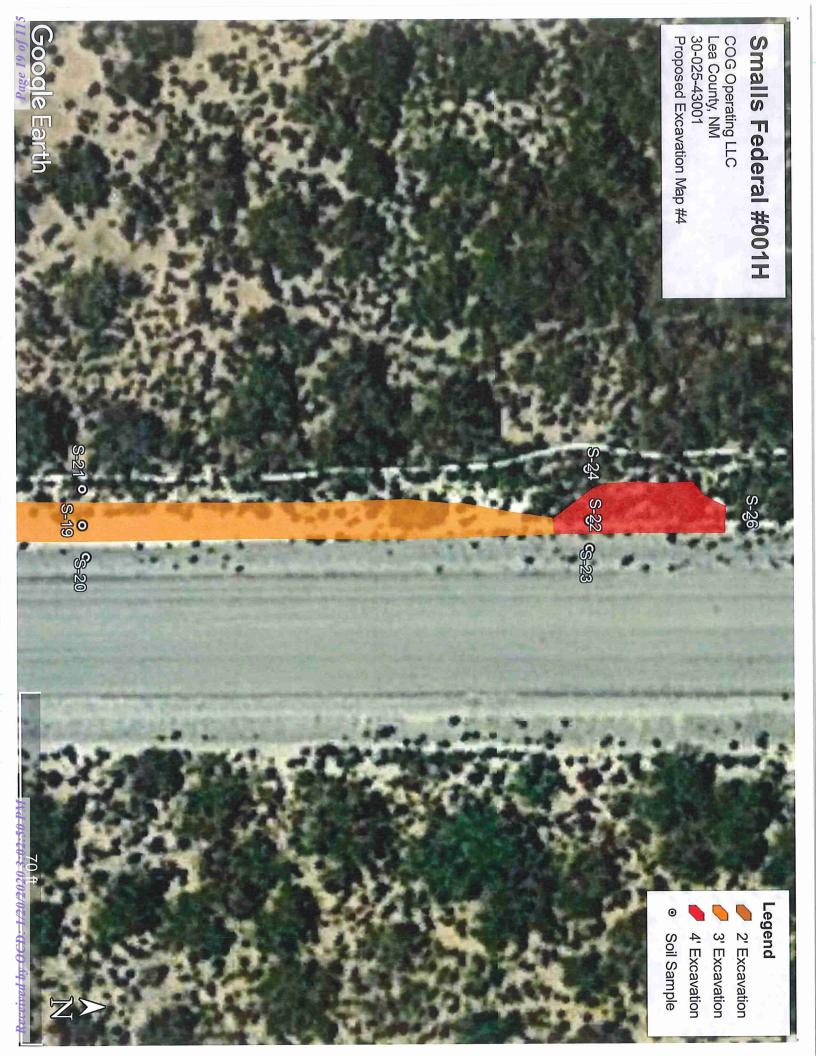
Google Earth















# **APPENDIX II**

# **SOIL SURVEY**

# **GROUNDWATER DATA**

# **FEMA FLOOD MAP**

#### Lea County, New Mexico

#### MN—Ratliff-Wink fine sandy loams

#### **Map Unit Setting**

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

National map unit symbol: dmqf Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

#### Map Unit Composition

Ratliff and similar soils: 45 percent Wink and similar soils: 40 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Ratliff**

#### Setting

Landform: Plains

Landform position (three-dimensional): Dip

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Calcareous alluvium and/or calcareous eolian

deposits derived from sedimentary rock

#### Typical profile

A - 0 to 4 inches: fine sandy loam
Bw - 4 to 22 inches: clay loam
Bk - 22 to 60 inches: clay loam

#### Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 50 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

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

#### Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 6c

Hydrologic Soil Group: B

Ecological site: Loamy (R042XC007NM)

Hydric soil rating: No

#### **Description of Wink**

#### Setting

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

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

#### 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

(NAD83 UTM in meters)

(In feet)

POD Sub-

QQQ Sub-Water DistanceDepthWellDepthWater Column **POD Number** Code basin County 6416 4 Sec Tws Rng CP 2 2 1 16 23S 34E 643549 3575824 815 594 200 394 CP 01730 POD1 CP LE 4 3 3 05 23S 34E 642074 3577676 1989 680 300 380 CP 01502 POD2 497 255 242 2034 CP I.F. 4 4 3 08 23S 34E 641762 3576206 🥻 CP 00556 POD1

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





SPECIAL FLOOD HAZARD AREAS

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

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



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

Chance Flood Hazard Zone X Future Conditions 1% Annual

OTHER AREAS OF FLOOD HAZARD

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

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone ) Effective LOMRs

Channel, Culvert, or Storm Sewer Area of Undetermined Flood Hazard Zona

OTHER AREAS

STRUCTURES | 1111111 Levee, Dike, or Floodwall GENERAL ---

Cross Sections with 1% Annual Chance Base Flood Elevation Line (BFE) Water Surface Elevation Coastal Transect

Limit of Study Hydrographic Feature Profile Baseline Coastal Transect Baseline Jurisdiction Boundary

**FEATURES** 

OTHER

No Digital Data Available Digital Data Available

MAP PANELS

Unmapped

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

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

reflect changes or amendments subsequent to this date and was exported on 9/30/2019 at 2:31:40 PM and does not authoritative NFHL web services provided by FEMA. This map The flood hazard information is derived directly from the accuracy standards The basemap shown complies with FEMA's basemap time. The NFHL and effective information may change or

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels,

unmapped and unmodernized areas cannot be used for FIRM panel number, and FIRM effective date. Map images for legend, scale bar, map creation date, community identifiers, Received by OCD: 1/20/2020 3:02:50 PM

32°18'46.50"N

103°28'3,54"W

become superseded by new data over time.

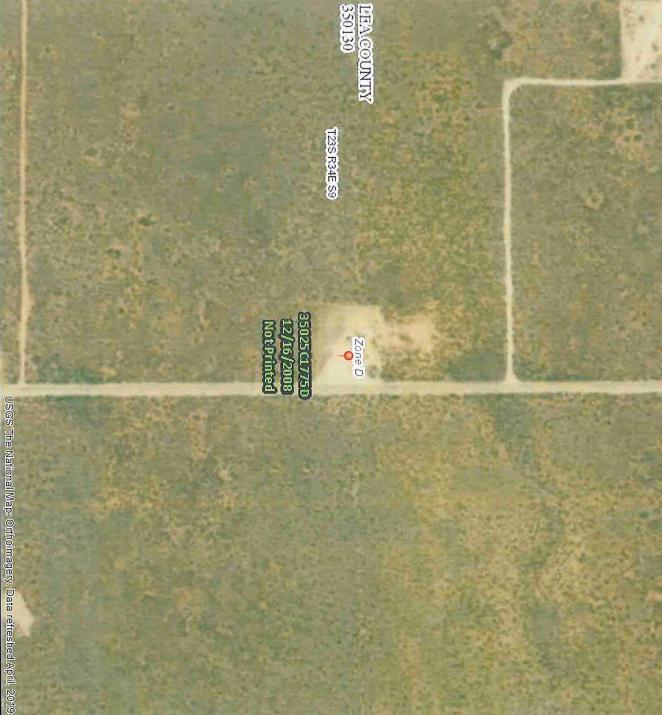
009 Page 25 of 105

1,000

1,500

2,000 Feet

1:6,000



#### 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 Nam				Contact Te	lephone	(575) 748-1570
Contact ema	Contact email JKnowlton@concho.com			Incident #	(assigned by OCD	)
Contact mail	ling address	600 West II	linois Avenue,	Midland, Texas	79701	
			Location	of Release So	ource	
Latitude	32.3166	35		Longitude _	-103.4	7247
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)	
Site Name		Smalls Federa	al #001H	Site Type	Tank	Battery
Date Release	Discovered	<u>J</u> une 9, 2019		API# (if app	licable)	·
TI:4 I .44	Castian	Township	Dance	Coun	4	7
Unit Letter	Section	Township	Range	Coun	<u>-</u>	-
J	09	23S	34E	Lea	<u> </u>	]
Surface Owne	r: 🔳 State	☐ Federal ☐ Tr	ribal Private (?	Name:		)
	_					
			Nature and	l Volume of I	Kelease	
				calculations or specific		e volumes provided below)
Crude Oi	1	Volume Release	d (bbls)		Volume Reco	overed (bbls)
■ Produced	Water	Volume Release	d (bbls) 20		Volume Reco	overed (bbls) 15
		Is the concentrate produced water	ion of dissolved c >10,000 mg/l?	hloride in the	■ Yes □ N	No
Condensa	ate	Volume Release	d (bbls)		Volume Reco	overed (bbls)
Natural G	as	Volume Release	d (Mcf)		Volume Reco	overed (Mcf)
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Wei	ght Recovered (provide units)
				_		
Cause of Rel	ease					
				ne. The flowline		
						m truck was dispatched to
		•				if we may commence
rremediatio	emediation 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	If YES, for what reason(s) does the respo	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
Yes No		
103 = 100		
If YES, was immediate no	otice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
1	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed ar	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
Per 19 15 29 8 B. (4) NM	IAC 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 blease attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
public health or the environ	ment. The acceptance of a C-141 report by the	ifications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
		eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: DeAn	n Grant	Title: HSE Administrative Assistant
Signature:	Opeant	Date: 6/20/2019
<sub>email:</sub> agrant@co	ncho.com	Telephone: (432) 253-4513
OCD Only		
Received by:		Date:

Received by OCD: 1/20/2020 3:02:50 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 30 of 115
Incident ID	
District RP	
Facility ID	
Application ID	

## **Site Assessment/Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No					
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☐ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody						

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

Received by OCD: 1/20/2020 3:02:50 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 31 of 115
Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature: Sheldon Niton	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 1/20/2020 3:02:50 PM Form C-141 State of New Mexico Oil Conservation Division Page 5

nt ID		Page	32	of	II
	ID				

Incident ID	
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>□ Proposed schedule for remediation (note if remediation plan times)</li> </ul>	12(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: Sheldon Jutan	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of	Approval
Signature:	<u>Date:</u>

Received by OCD: 1/20/2020 3:02:50 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 33 of 115
Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

Closure Report Attachment Checklist: Each of the following i	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Coefficient Name:	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



# **APPENDIX IV**

# LABORATORY DATA



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey & Keene

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: Project Location:

700778.123.01 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	Analyze	d 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 (PIL	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



## 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: Project Location:

700778.123.01 COG - LEA CO NM Sampling Date:

06/14/2019

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d 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	•			1			
Surrogate: 1-Chlorooctadecane	102 9	6 37.6-14	7						

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\*=Accredited Analyte

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Celeg & Keens



## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/17/2019

06/21/2019

Sampling Date:

06/14/2019

Reported:

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: BF			- Annews Work		
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 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 41-142	?						,
Surrogate: 1-Chlorooctadecane	108 9	% 37.6-14	17						

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\*=Accredited Analyte

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Celeg & Keene



## Analytical Results For:

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

Received:

06/17/2019

Reported:

06/21/2019

Project Name:

SMALLS FED #001H

Project Number: Project Location: 700778.123.01 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	Analyze	d 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	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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	?						
	700								

Surrogate: 1-Chlorooctadecane

108 %

37.6-147

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\*=Accredited Analyte

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Celeg & Keena



## Analytical Results For:

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

Received:

06/17/2019

Reported:

06/21/2019

Project Name: Project Number: SMALLS FED #001H 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	Analyze	d 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	% 73.3-12	9						
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	Analyze	d 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	% 37.6-14	17						

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\*=Accredited Analyte

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Celley to trune



## 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: Project Location:

700778.123.01

COG - LEA CO NM

Sampling Date:

06/14/2019

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

\*\* (See Notes) Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d By: BF				2000/00mmmmm	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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					

mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1880	16.0	06/19/2019	ND	432	108	400	3.77	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/18/2019	ND	192	95.8	200	1.04	
<10.0	10.0	06/18/2019	ND	184	91.9	200	0.0484	
<10.0	10.0	06/18/2019	ND					
	Result  1880  mg,  Result  <10.0  <10.0	Result Reporting Limit  1880 16.0  mg/kg  Result Reporting Limit  <10.0 10.0  <10.0 10.0	Result Reporting Limit Analyzed  1880 16.0 06/19/2019  mg/kg Analyzed  Result Reporting Limit Analyzed  <10.0 10.0 06/18/2019  <10.0 10.0 06/18/2019	Result         Reporting Limit         Analyzed         Method Blank           1880         16.0         06/19/2019         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           1880         16.0         06/19/2019         ND         432           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           1880         16.0         06/19/2019         ND         432         108           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           1880         16.0         06/19/2019         ND         432         108         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed By: MS           Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery         True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           1880         16.0         06/19/2019         ND         432         108         400         3.77           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane

104%

41-142

Surrogate: 1-Chlorooctadecane

106 %

37.6-147

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\*=Accredited Analyte

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Celeg D. Keene



## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: BF

Received:

RTFY 8021R

06/17/2019

6/1//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

ma/ka

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

BTEX 8021B	mg,	кg	Anaiyze	а ву: вг		W-97-W/Alganosa			~~~~
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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2019	ND	400	100	400	3.92	QR-03
TPH 8015M	mg,	/kg	Analyze	d 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	% 37.6-14	7						

## Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keene



## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: BF

Received:

RTFY SOCIE

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: Project Location: 700778.123.01 COG - LEA CO NM

ma/ka

116%

37.6-147

Sample Received By:

Tamara Oldaker

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

B1EX 8021B	mg/	кд	Anaiyze	а ву: вг					
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	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/19/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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 9	% 41-142							

#### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celleg D. Keine



# 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:

BTEX 8021B

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition: Sample Received By:

\*\* (See Notes) Tamara Oldaker

Project Number:

700778.123.01

Project Location:

COG - LEA CO NM

mg/kg

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

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	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

184

91.9

200

0.0484

Analyzed By: BF

Surrogate: 1-Chlorooctane

DRO >C10-C28\* EXT DRO >C28-C36

110 %

<10.0

<10.0

41-142

06/18/2019

06/18/2019

10.0

10.0

Surrogate: 1-Chlorooctadecane

112%

37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celley Theene



## 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: Project Number: SMALLS FED #001H

Project Location:

700778.123.01 COG - LEA CO NM Sampling Date:

npling Date:

Sampling Type: Soil

Sampling Condition:

\*\* (See Notes)

06/14/2019

Sample Received By:

Tamara Oldaker

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

ma	1	k

#### Analyzed By: BF

BIEX 8021B	mg/	кд	Anaiyze	и ву; вг					
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 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	ma/	ka	Analyze	d Rv: MS					

		-							
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	Analyze	d 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

Cardinal Laboratories

\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d 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	107 %	6 73.3-12	9						
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	Analyze	d 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 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	116 %	6 37.6-14	7						

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\*=Accredited Analyte

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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: Project Location: 700778.123.01 COG - LEA CO NM Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d 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 5	% 73.3-12	9						
Chloride, SM4500CI-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	Analyze	d 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 9	% 41-142							
Surrogate: 1-Chlorooctadecane	115 9	% 37.6-14	7						

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\*=Accredited Analyte

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# Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 73.3-12	9						
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	Analyze	d 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	% 37.6-14	17						

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Celeg & Keens



## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/17/2019 06/21/2019

Reported:

Project Name:

Project Number: Project Location: SMALLS FED #001H 700778.123.01

COG - LEA CO NM

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

\*\* (See Notes)

06/14/2019

Soil

Tamara Oldaker

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

BTEX 8021B	mg/kg		Analyzed By: BF		MANUAL CONTRACTOR CONT			142-14-14-14-14-14-14-14-14-14-14-14-14-14-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	111 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	4000	16.0	06/19/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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

Surrogate: 1-Chlorooctadecane

89.9 %

37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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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: Project Location: 700778.123.01 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 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyze	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	Analyze	d 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-Chlorooctadecane

88.6% 37.6-147

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\*=Accredited Analyte

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Clay to Kenne -



## Analytical Results For:

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

Received:

06/17/2019

Reported:

06/21/2019

Project Name:

SMALLS FED #001H 700778.123.01

Project Number: Project Location:

COG - LEA CO NM

Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

06/14/2019

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: BF			······································	101111111	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	

Surrogate: 1-Chlorooctane

90.1 %

Surrogate: 1-Chlorooctadecane

90.8 %

41-142 37.6-147

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\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg,	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	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	4400	16.0	06/19/2019	ND	400	100	400	3.92	
PH 8015M mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 79.8 % 37.6-147 Surrogate: 1-Chlorooctadecane

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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

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Name: Project Number:

Sample Received By:

Tamara Oldaker

Project Location:

700778.123.01

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	06/19/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	% 37.6-14	7						

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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:

Sample Received By:

Tamara Oldaker

Project Location:

700778.123.01 COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: BF	2000				
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 9	% 73.3-12	9						
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	Analyze	d 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	% 37.6-14	7						

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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	Analyze	d 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 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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 700778.123.01

Project Number: 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	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2019	ND	1.90	94.8	2.00	1.12	
Toluene*	<0.050	0.050	06/19/2019	ND	1.87	93.4	2.00	0.0398	
Ethylbenzene*	<0.050	0.050	06/19/2019	ND	1.80	89.9	2.00	0.402	
Total Xylenes*	<0.150	0.150	06/19/2019	ND	5.53	92.1	6.00	0.285	
Total BTEX	<0.300	0.300	06/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

06/19/2019

06/19/2019

Fax To:

(575) 745-8905

Received: Reported:

Toluene\*

Ethylbenzene\*

06/17/2019

06/21/2019 SMALLS FED #001H

Project Name: Project Number:

700778.123.01

Project Location:

COG - LEA CO NM

Sampling Date:

1.89

1.87

5.83

06/14/2019 Soil

2,00

2.00

6.00

Sampling Type:

94.3

93.7

97.2

Sampling Condition: Sample Received By: \*\* (See Notes) Tamara Oldaker

RPD

6.21

7,12

8.45

8.14

Qualifier

QR-03

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

BTEX 8021B	mg,	/kg	Analyze				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Benzene*	<0.050	0.050	06/19/2019	ND	1.93	96.3	2.00

0.050

0.050

06/19/2019 Total Xylenes\* < 0.150 0.150 ND 06/19/2019 Total BTEX < 0.300 0.300 ND

73.3-129 Surrogate: 4-Bromofluorobenzene (PIL 107 % Chloride, SM4500Cl-B ma/ka Analyzed By: AC

< 0.050

<0.050

Chioride, SM45UUCI-B	mg/	кg	Anaiyze	а ву: АС					
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	Analyze	d 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					

ND

ND

Surrogate: 1-Chlorooctane 83.2 % 41-142 37.6-147 Surrogate: 1-Chlorooctadecane 84.7%

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: BF

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

RTFX 8021R

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Name:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Number: Project Location:

700778.123.01 COG - LEA CO NM

ma/ka

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

B1EX 8021B	mg/	кд	Anaiyze	а ву; вг		CMCANOCICEUR (CARACTER CONTRACTOR			
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	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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	<u> </u>						
Surrogate: 1-Chlorooctadecane	88.4	% 37.6-14	7						

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\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: BF

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

BTEX 8021B

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Number:

700778.123.01

ma/ka

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BIEX 805TB	mg/	кg	Anaiyze	а Бу; БГ					
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	% 73.3-12	9				-		
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed Dyr DE

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- 11 0' (H902080-25)

BTEX 8021B	mg,	'kg	Analyze	d 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	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: BF

Received:

BTEX 8021B

DRO >C10-C28\* EXT DRO >C28-C36 06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition: Sample Received By:

\*\* (See Notes) Tamara Oldaker

Project Number: Project Location: 700778.123.01

mg/kg

COG - LEA CO NM

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

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	% 73.3-12	9						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*									

ND

ND

239

119

200

8.72

06/19/2019

06/19/2019

Surrogate: 1-Chlorooctane	85.5 %	41-142
Surrogate: 1-Chlorooctadecane	86.9 %	37.6-147

<10.0

<10.0

10.0

10.0

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\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: BF

Received:

BTEX 8021B

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

mg/kg

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

				All the same of th					The second secon
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	106 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	3360	16.0	06/19/2019	ND	400	100	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	-100	10.0	00/10/2010	ND					
EXT DIO > C20 C30	<10.0	10.0	06/19/2019	ND					

Surrogate: 1-Chlorooctane

67.9 %

Surrogate: 1-Chlorooctadecane

69.9 %

41-142 37.6-147

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\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: BF

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition: Sample Received By:

\*\* (See Notes) Tamara Oldaker

Project Number: Project Location: 700778.123.01

ma/ka

COG - LEA CO NM

Sample ID: S- 13	1' (H902080-28)
BTEX 8021B	

BTEX 8021B	mg,	/ Kg	Anaiyze	а ву: вг					
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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	?						
	0.7.4	27.51							

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

Analyzed By: BF

Received:

BTFX 8021B

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

ma/ka

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

BIEX 8051B	mg/	кд	Anaiyze	а ву: вг					
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	103 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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				7.11			
Surrogate: 1-Chlorooctadecane	90.9	% 37.6-14	7						

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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:

Sample Received By:

Tamara Oldaker

Project Location:

700778.123.01

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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:

Sampling Condition:

\*\* (See Notes)

Project Number:

SMALLS FED #001H

Sample Received By:

Tamara Oldaker

Project Location:

700778.123.01 COG - LEA CO NM

88.7%

37.6-147

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

BTEX 8021B	mg/	'kg	Analyze	d 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 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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	,						

## Cardinal Laboratories

Surrogate: I-Chlorooctadecane

\*=Accredited Analyte

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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:

700778.123.01 COG - LEA CO NM

83.8 %

37.6-147

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

BTEX 8021B	mg/	'kg	Analyze	d 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 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	
			0.514.040.04.0	AUD.					
EXT DRO >C28-C36	<10.0	10.0	06/19/2019	ND					

## Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celeg D. Kuna



# 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 Name: Project Number: 700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg,	′kg	Analyze	d 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	% 73.3-12	9			,			

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	Analyze	d 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

Cardinal Laboratories

\*=Accredited Analyte

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## Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d 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	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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\*=Accredited Analyte

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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 Name:

5MALLS FED #001F

Sample Received By:

Tamara Oldaker

Project Number:

700778.123.01

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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\*=Accredited Analyte

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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

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Name: Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/	′kg	Analyze	d 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 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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# Analytical Results For:

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

Received:

06/17/2019

Reported: Project Name: 06/21/2019 SMALLS FED #001H

Project Number:

700778.123.01

Project Location:

COG - LEA CO NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

06/14/2019

Soil

\*\* (See Notes)

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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:

BTEX 8021B

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Name: Project Number: 700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

mg/kg

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

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	103 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									
Cilioride	48.0	16.0	06/19/2019	ND	400	100	400	0.00	
TPH 8015M	48.0 mg/		, ,	ND d By: MS	400	100	400	0.00	
			, ,		400 BS	100 % Recovery	400 True Value QC	0.00	Qualifier

ND

ND

206

103

200

0.805

06/18/2019

06/18/2019

Analyzed By: BF

Surrogate: 1-Chlorooctane 98.4 % 41-142 Surrogate: 1-Chlorooctadecane 97.9 % 37.6-147

<10.0

<10.0

10.0

10.0

# Cardinal Laboratories

DRO >C10-C28\*

EXT DRO >C28-C36

\*=Accredited Analyte

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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: Project Name: 06/21/2019

SMALLS FED #001H

Project Number: Project Location: 700778.123.01

COG - LEA CO NM

Sampling Date:

06/14/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Tamara Oldaker

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

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5,83	97.2	6.00	8.14	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	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	Analyze	d 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	% 37.6-14	17						

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\*=Accredited Analyte

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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: Project Name: 06/21/2019 SMALLS FED #001H

Project Number: Project Location:

700778.123.01 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	Analyze	d 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 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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# Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

(575) 745-8905

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Name: Project Number:

Sample Received By:

Tamara Oldaker

Project Location:

700778.123.01 COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2019	ND	1.93	96.3	2.00	6.21	
Toluene*	<0.050	0.050	06/20/2019	ND	1.89	94.3	2.00	7.12	
Ethylbenzene*	<0.050	0.050	06/20/2019	ND	1.87	93.7	2.00	8.45	
Total Xylenes*	<0.150	0.150	06/20/2019	ND	5.83	97.2	6.00	8.14	
Total BTEX	<0.300	0.300	06/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	6 41-142							
Surrogate: 1-Chlorooctadecane	127 %	6 37.6-14	7						

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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

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Name:

Project Number: Project Location: 700778,123,01 COG - LEA CO NM Sample Received By:

Tamara Oldaker

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

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- 11	IJ,	/ KL

Ana	lyzed	By:	m
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BTEX 8021B	mg/l	kg	Analyze	d 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 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
									0 115

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,	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- 19 2' (H902080-43)

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	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	Analyze	d 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	% 37.6-14	7						

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# Analytical Results For:

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

Received: Reported:

Project Name:

06/17/2019

06/21/2019

SMALLS FED #001H

Project Number: Project Location: 700778.123.01 COG - LEA CO NM Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

06/14/2019

Tamara Oldaker

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	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	

Surrogate: 1-Chlorooctane 94.3 % 41-142 Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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# Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Tamara Oldaker

Project Number:

700778.123.01

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	6 73.3-12	9						
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	Analyze	d 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 9	6 41-142							
Surrogate: 1-Chlorooctadecane	108 9	6 37.6-14	7						

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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	Analyze	d 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 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 41-142		***************************************					
Surrogate: 1-Chlorooctadecane	105 9	% 37.6-14	7						

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# Analytical Results For:

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

Received: Reported:

Project Name:

06/17/2019

06/21/2019

SMALLS FED #001H

Project Number: Project Location: 700778.123.01 COG - LEA CO NM Sampling Date:

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

06/14/2019

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	<u> </u>						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	7						

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\*=Accredited Analyte

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# Analytical Results For:

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

Received: Reported: 06/17/2019

06/21/2019

Project Name: Project Number:

Project Location:

SMALLS FED #001H 700778.123.01 COG - LEA CO NM

101 %

37.6-147

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Soil \*\* (See Notes)

06/14/2019

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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							

### Cardinal Laboratories

Surrogate: I-Chlorooctadecane

\*=Accredited Analyte

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# Analytical Results For:

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

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

DTEV 0031B

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

ma/ka

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 73.3-12	9						100 100 100 100 100 100 100 100 100 100
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

Analyzed Ry: ms

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\*=Accredited Analyte

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# Analytical Results For:

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

Received: Reported:

BTEX 8021B

06/17/2019

06/21/2019

SMALLS FED #001H

Project Name: Project Number: Project Location:

700778.123.01 COG - LEA CO NM

mg/kg

Sampling Date:

06/14/2019

Sampling Type:

Soil Sampling Condition:

\*\* (See Notes)

Sample Received By:

Tamara Oldaker

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

The state of the s									
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 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	

ND

Analyzed By: ms

Surrogate: 1-Chlorooctane

105 %

<10.0

41-142

06/19/2019

10.0

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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EXT DRO >C28-C36

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# Analytical Results For:

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

Received:

06/17/2019

Sampling Date:

06/14/2019

Reported:

06/21/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

\*\* (See Notes)

Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	108 %	6 37.6-14	7						

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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

107 %

37.6-147

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

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	% 41-142	•						

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Surrogate: 1-Chlorooctadecane

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# Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: ms

Received: Reported:

BTEX 8021B

06/17/2019

06/21/2019

SMALLS FED #001H

Project Number: Project Location:

Project Name:

700778.123.01 COG - LEA CO NM

mg/kg

Sampling Date:

06/14/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Tamara Oldaker

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

BIEX 8021B	my/	Ng .	Allalyze	u by. IIIS					
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 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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# Analytical Results For:

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

Received: Reported: 06/17/2019

06/21/2019

SMALLS FED #001H

Project Number: Project Location:

Project Name:

700778.123.01 COG - LEA CO NM Sampling Date:

Sampling Type:

06/14/2019 Soil

Sampling Condition: Sample Received By:

\*\* (See Notes)

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 73.3-12	9						***************************************
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC		NETALINE I			
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	Analyze	d 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 9	% 41-142	·						
Surrogate: 1-Chlorooctadecane	105 9	6 37.6-14	7						

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# Analytical Results For:

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

Received: Reported: 06/17/2019

06/21/2019

Project Number:

SMALLS FED #001H 700778.123.01

Project Location:

Project Name:

COG - LEA CO NM

Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

06/14/2019

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d 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	106 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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

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□ No ·	Fax Result:	3	う う
Yes □ No	_	pate:	Relinquished By: Pa
	he above stated reasons or otherwise,	tes or suggestors arising out of or related to the performance of services hereunder by Cardinal, regardless of whicher such claim is based upon any of the above stated	affiliates of suggestors arising out of or related to the performance of serv
cable	) within 30 days after completion of the applications of the appli	aralyses. All claims indicting these for eagligence and any other course whatseever shall be deemed walved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or cancequental darmages, including without limitation, business sharropianes, loss of use, or loss of use, or loss of profis incurred by client, its subsidiaries,	aralyses. All claims Including these for negligence and any other course weent shall Cardinal be lipble for incidental or consequental
	d to the amount paid by the client for the	PLEASE NOTE: Liability and Damages. Cardinatis Exbility and clients exclusive comedy for any claim artising whether based in contract or sait, shall be limited to the unsure paid by the client for the	PLEASE NOTE: Liability and Damages. Cardinata liability and alient's ex
	1135		105-30
	1125		95-24
	1120		85-23
	1 115		7 5-2 2 '
	1110		65-21
	3011		55-20'
	1100		45-10'
	1050		366-3 0-1
	1040		286-2 0-1
	6/14/19 1030 4	· 6	186-10-1
B	DATE TIME 7	# CO GRO WAS SOIL OIL SLU OTH ACII	H902080
	- p	ATAC IAUC VET8	ha Arren
EX	11	OWATE  SE: OL	Lab I.D. Sample I.D.
ide	E	TER	
	SAMPLING	MATRIX PRESERV	FOR LAB USE ONLY
		Fax 非:	20
	元方なる	Phone #:	Project Location: Lea County
	Zip: Sheddon	<u> </u>	Project Name: Smalls Fed #
	30.	Project Owner: COG city:	Project #: 700778.123.01 Pr
	X	Fax #: Address:	Phone #: 575 - 746 - 8768 Fa
	I Adking	State: NM Zip: 88210 Atm: Day	Į
	Talon LPE	AVE Company: Ta	Address: 408 W Texas A
	00778.128.01	S. P.O. 崇 7	Project Manager: David Adkin
ANALYSIS REQUEST			Company Name: Talon 19E

25.00

Sample Condition
Cool Intact
Yes Tes
No No

7,0

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

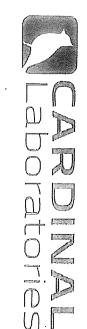
Time:

Received By:

Relinquished By:

Page 92 of 115

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



101 East Warland, Hobbs, NW 88246 (575) 393-2326 FAX (575) 393-2476

	TO THE MEMBERS.
☐ Yes ☐ No - Add'I Fax #:	
☐ Yes ☐ No	Phone Result:
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X > .	FOR US USEDNLY MATRIX PRESERV SAMPLING
T	Sampler Name: Brandan Sinclair Fax#:
	Project Location: Lea Couaty Phone #: Hetchurch
•	Project Name: Smalls Fed # 001 H State: Zip: Shellow
	Project #: $700778$ , 12 3.01 Project Owner: $C06$ City: $C05$
	ŝ`
	Address: 40% W Texas Ave company: Talon LPE
- 11	Project Manager: Devid Adkins P.O. # 700778,12801
ANALYSIS REQUEST	1 0 0 C P E

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

13.30

Sample Condition Cool Infact Yes 1-Yes

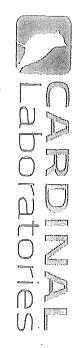
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Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinguished By

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Received By:

Page 93 of 115



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

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	J Adkin	City: Artiesia
	exas Ale company: Von	Address: YOY W
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ANALYSIS REQUEST		٩

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

3.9° #97

Sample Condition
Cool-ointact
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Lifes Lifes

CHECKED BY:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Page 94 of 115



101 East Warland, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476

	REMARKS:	アイイに調べて大きず
☐ Yes ☐ No·	Fax Result:	70-17-19
Yes   No   Add! Bhore #・	Phone Results	Date:
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opplicable .	t or tott, shau de umited to the anioths baid by the client for the ap	analyses. All chains the believes or negligence and any other cause whatsoever shall be desired waived unless made in whiley and received by Cardinal with 80 days after completion of the applicable
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	City: CON	Project #: 70077 1, 12 3.01 Project Owner: CO 6
•	Address: BS 6/17	Phone #: 575-746-6768 Fax #:
	Arin: David Adk ins	State: NM Zip: 88210
	١ ٩	Address: 40% W Texas Ave
	P.O. #: 700778 123.01	Project Manager: Dovid Adlcins
ANALYSIS REQUEST		Company Name: Talon UDE

13.9.

Cool Infact
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4

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CHECKED BY:

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

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Time:

Page 95 of 115

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



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

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	Date: Received By:	Reinquistied By:
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t or the	analyses. All dishira Individity theer for negligance and only other causes whitebooker shall be decembed where the control control is willing and received by Cardinal within do dest after control the or the control contro	analyses. All claims including those for n service. In no event shall Cardinal be fial
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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WATRIX PRESERV.	FOR LAB USE ONLY
5	en Sinclair Fax # H;	Sampler Name: Brond
	a County Phone #: Sheldon	Project Location: (es
	lls Fed 年001日 State: Zip:	Project Name: Sunglis
	123.01 Project Owner: COS City: COS	Project年: 70077年、12
	Fax #: Address: BS	Phone #: 575-746-6768
	State: NM Zip: 88210 Atin: David Adle in 5	city: Artesia
	Texas Aye company: Takon L	Address: YOY W
	Ad Cins P.O. # 700778	Project Manager: Dav:
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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Tall on	Talon LDE										0.11=11-11					Y3	7	anal ysis	S	Į	0		-				
Project Manager: Dovid	2						ď.	P.O. 崇 70077	7	700	20	10/2					ı					$\dashv$					
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Sample Condition
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CHECKED BY:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

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Page 97 of 115

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





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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



# 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 0.00 Qualifier

Chloride

32.0

16.0 09/09/2019

ND

432

108

400

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

% Recovery

108

Result Reporting Limit 16.0

Analyzed

Method Blank

BS

True Value QC

RPD Qualifier

Chloride

16.0 09/09/2019 ND

432

400

0.00

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Analyte

Analyte

Result Reporting Limit Analyzed

Analyzed

09/09/2019

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

64.0

Result

496

16.0

Reporting Limit

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

Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

RPD

0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Kenne



# Analytical Results For:

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

Received: Reported: 09/04/2019

09/10/2019

SMALLS FED #001H

Project Name: Project Number:

700778.123.01

Project Location:

COG - LEA CO NM

Sampling Date:

Sampling Type:

Sample Received By:

Sampling Condition:

Cool & Intact

09/03/2019

Soil

Tamara Oldaker

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

16.0

16.0

Analyzed 09/09/2019

Analyzed

Analyzed

09/09/2019

Method Blank

BS 432 % Recovery 108

True Value QC 400

Qualifier

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

Chloride, SM4500Cl-B

Analyte

Analyte

mg/kg

Analyzed By: AC

ND

BS

Chloride

Chloride

Chloride

Chloride

Result 3840

Result

304

32.0

64.0

2040

16.0 09/09/2019 Method Blank ND

ND

% Recovery 432

True Value QC 400

RPD 0.00

RPD

0.00

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank BS % Recovery

108

108

True Value QC

400

RPD

0.00

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result

Reporting Limit Analyzed Method Blank

ND

BS 432

BS

432

432

% Recovery 108

True Value QC 400

RPD 0.00 Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

Result Reporting Limit

Analyzed

09/09/2019

09/09/2019

Method Blank

ND

% Recovery

108

True Value QC 400

RPD 0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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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:

BS

432

09/03/2019

Reported:

09/10/2019

Sampling Type:

Soil

Project Name:

SMALLS FED #001H

Sampling Condition:

Cool & Intact

Project Number: Project Location: 700778.123.01 COG - LEA CO NM Sample Received By:

Tamara Oldaker

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

	- (
Chloride, SM4500Cl-B	r

mg/kg

Analyzed By: AC

Analyte

Reporting Limit

Analyzed 09/09/2019

Analyzed

Method Blank ND

% Recovery

108

% Recovery

108

% Recovery

108

True Value QC

400

RPD 0.00 Qualifier

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

Chloride, SM4500CI-B	
Analyte	

mg/kg

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

True Value QC

RPD Qualifier

Chloride

Chloride

Chloride

32.0

Result

208

Result

32.0

16.0 09/09/2019 Method Blank ND

432

BS

400

0.00

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

Chloride,	SM4500CI-B
-----------	------------

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Analyzed 09/09/2019 16.0

Method Blank ND

BS

432

True Value QC

400

True Value QC

400

RPD 0.00

Qualifier

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

-	
Chloride,	SM4500CI-B

mg/kg

Analyzed By: AC

	Analyte
Chloride	

Result 64.0 Reporting Limit Analyzed Method Blank ND

BS

432

BS

432

% Recovery

108

RPD 0.00 Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Result

1410

Analyzed By: AC

	Analyte
Chloride	

Analyzed

09/09/2019

09/09/2019

Method Blank

ND

% Recovery 108

True Value QC 400

RPD Qualifier 0.00

## Cardinal Laboratories

\*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be juble for incidental or consequential damages. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



# 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

Cool & Intact

Sampling Condition:

Project Number:

700778.123.01

Sample Received By:

Tamara Oldaker

Project Location:

COG - LEA CO NM

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	
C									

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: AC			-0-		
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	

## Cardinal Laboratories

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Celley There



# 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 700778.123.01

Project Number: Project Location:

COG - LEA CO NM

Sampling Date:

Sample Received By:

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Tamara Oldaker

09/03/2019

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

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte Result

592

Result

1260

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 09/09/2019 Method Blank ND

BS 448 % Recovery 112

True Value QC 400

400

400

RPD

3.64

Qualifier

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

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC

Analyzed Method Blank

BS

448

% Recovery True Value QC

RPD

Qualifier 3.64

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit 752 16.0

Analyzed 09/09/2019

09/09/2019

Method Blank ND

ND

ND

BS 448 % Recovery 112

112

True Value QC

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit

16.0

Reporting Limit

16.0

Method Blank Analyzed

BS

448

% Recovery 112

112

True Value QC

400

RPD 3.64

RPD

3.64

Qualifier

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

128

Result

16.0

Analyzed

09/09/2019

09/09/2019

Method Blank ND

BS % Recovery 448

True Value QC 400

RPD 3.64

Cardinal Laboratories

\*=Accredited Analyte

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aleg there

Celey D. Keene, Lab Director/Quality Manager



# 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' (H90	03064-25)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H96	03064-26)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H96	03064-27)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H96	03064-28)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	

# Cardinal Laboratories

\*=Accredited Analyte

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# Analytical Results For:

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

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, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

2800

Result

3240

336

Result

16.0

Analyzed 09/09/2019 Method Blank ND

BS % Recovery 448

BS

448

BS

448

448

True Value QC 400

RPD 3.64 Qualifier

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

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

112

112

True Value QC

400

RPD

3.64

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Result Analyte

Analyzed

09/09/2019

Analyzed

09/09/2019

Method Blank

ND

ND

% Recovery

True Value QC

400

RPD

3.64

Qualifier

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

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AC

Analyzed

09/09/2019

Method Blank BS

% Recovery 112

112

True Value QC 400

RPD 3.64 Qualifier

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Celeg & Keene



### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Clay to Keene



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

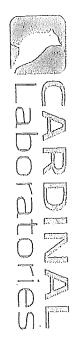
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4		Company: COG			
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Page 107 of 115



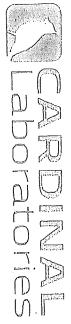
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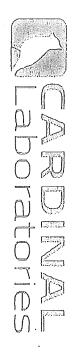
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101 East Marland, Hobbs, NW 88240

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

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io Aokins	
10	Company: COG
State: N/M Zip: 88210	Artin: Sheldon Hitchcock
Phone 赤 5 フS-フ 4 6 - 8 フ 6 8 Fax 巻:	Address: ZZOS W Main
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eral #001H	State: 1/1/1 Zip: 88210
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Page 110 of 115







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 accreditated 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.

Celey & Keine

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



# Analytical Results For:

TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/13/2019

Reported: Project Name: 11/14/2019 SMALLS FED #001H

Project Number:

700778.123.01

Project Location:

COG - LEA CO NM

Sampling Date:

11/12/2019

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed 11/14/2019 Method Blank ND

BS

% Recovery 108

True Value QC 400

RPD 3.77 Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

432

Qualifier

Chloride

Chloride

Chloride

Chloride

16.0

16.0

Result

16.0

Reporting Limit 16.0

16.0

Reporting Limit

16.0

16.0

Analyzed 11/14/2019 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 3.77

Chloride, SM4500Cl-B

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

mg/kg

Analyzed By: AC

Analyte

Analyte

Reporting Limit Result

Analyzed 11/14/2019 Method Blank ND

BS 432 % Recovery

108

True Value QC 400

Qualifier

RPD 3.77

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

Chloride, SM4500Cl-B

Analyte

mg/kg

Result

16.0

Analyzed By: AC

Analyzed 11/14/2019

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 3,77 Qualifier

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



# 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: Project Location: 700778.123.01

COG - LEA CO NM

Sampling Date:

Sampling Type:

11/12/2019 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

RPD 3.77

RPD

3.77

Qualifier

Chloride

Chloride

<16.0

Result

16.0

16.0

11/14/2019

Analyzed

11/14/2019

Analyzod

ND

BS 432

108

400

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

Analyte

Analida

mg,	/k

Reporting Limit

16.0

Donorting Limit

# Analyzed By: AC

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

Qualifier

Qualifier

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

•	
Chloride,	SM4500CI-B

mg/kg

Analyzed By: AC

	Analyte	Result	Reporting Limit	Analyzeu
Chloride		<16.0	16.0	11/14/2019

Method Blank BS ND 432

108

% Recovery

True Value QC 400

RPD 3.77

Cardinal Laboratories

\*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories

Celley D. Freene



### **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 SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

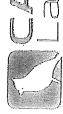
Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keene

Page 5 of 5



# Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Warland, Hobbs, NW 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Talan Cor			
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Tigett managett DAVID ADKINS	7.0. 崇	H	
Address: 408 W. TEXAS	Company: Corver		
Gity: ARTES18 State: NN Zip: 98310	Affin: 17 h Telipory		
	Address;		
Project #: 700778, 123,01 Project Owner: CONCHO	Oity:		
#	State: Zip:	5	-
Project Location: LEA County	蘇	30	
Sampler Name: MICHREL COLLIER	一下 五次 排:	)KI	
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326