

SITE INFORMATION

Report Type: Closure Report 1RP-5633

General Site Information:

Site:	Fascinator Fed Com #703H					
Company:	COG Operating LLC					
Section, Township and Range	Unit P	Sec. 30	T 24S	R 35E		
Lease Number:	API No.					
County:	Lea County					
GPS:	32.18334			-103.39826		
Surface Owner:	Private					
Directions:	From intersection of HWY 18 and HWY 28 in Jal, travel west on HWY 128for approximately 13.4 miles, turn north onto lease road for 0.10 mile to the location on the west side of the lease road.					

Release Data:

Date Released:	7/10/2019
Type Release:	Recycled Produced Water
Source of Contamination:	Layflat Line
Fluid Released:	36 bbls
Fluids Recovered:	0 bbls

Official Communication:

Name:	Ike Tavaréz		Clair Gonzales
Company:	COG Operating, LLC		Tetra Tech
Address:	One Concho Center		901 West Wall Street
	600 W. Illinois Ave.		Suite 100
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		(432) 687-8110
Fax:	(432) 684-7137		
Email:	itavarez@concho.com		Clair.Gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	139' below surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	20,000 mg/kg



October 8, 2019

Dylan Rose-Coss
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Closure Report for the COG Operating, LLC, Fascinator Fed Com #703H, Unit P, Section 30, Township 24 South, Range 35 East, Lea County, New Mexico. 1RP-5633

Mr. Rose-Coss:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG) to remediate a release that occurred at the Fascinator Fed Com #703H, Unit P, Section 30, Township 24 South, Range 35 East, Lea County, New Mexico (Site). The spill site coordinates are 32.18334°, -103.39826°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report the release was discovered on July 10, 2019. Approximately 36 barrels of recycled produced water were released due to a third party's 12" hose separating from the clamp. None of the fluids were recovered. The majority of the release impacted an area in the pasture adjacent to the lease road measuring approximately 80' x 130'. The initial C-141 Form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is in a low karst potential area. The nearest well is listed on the USGS National Water Information System in Section 30, approximately 0.75 miles southwest of the site and has a reported depth to groundwater of 139 feet below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons

Tetra Tech

901 W. Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 www.tetrattech.com



(TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 1,000 mg/kg (GRO + DRO) and 2,500 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg.

Remediation Activities

Tetra Tech personnel were onsite from August 19-29, 2019 to supervise the remediation activities. The release area was excavated to total depths between 1.0' to 4.5' below surface. Fifty (50) bottom hole and twelve (12) sidewall composite samples were collected every 200 square feet to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by method SM4500. The sampling results are summarized in Table 1. The excavation depths and sample locations are shown in Figure 4.

Referring to Table 1, all final confirmation samples showed benzene, total BTEX, TPH, and chloride concentrations below the RRAL's and below the reclamation standards.

Approximately 1,740 cubic yards of material were excavated and transported offsite for proper disposal. The area was then backfilled with clean material to surface grade.

Conclusion

Based on the laboratory results and remediation activities performed, COG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

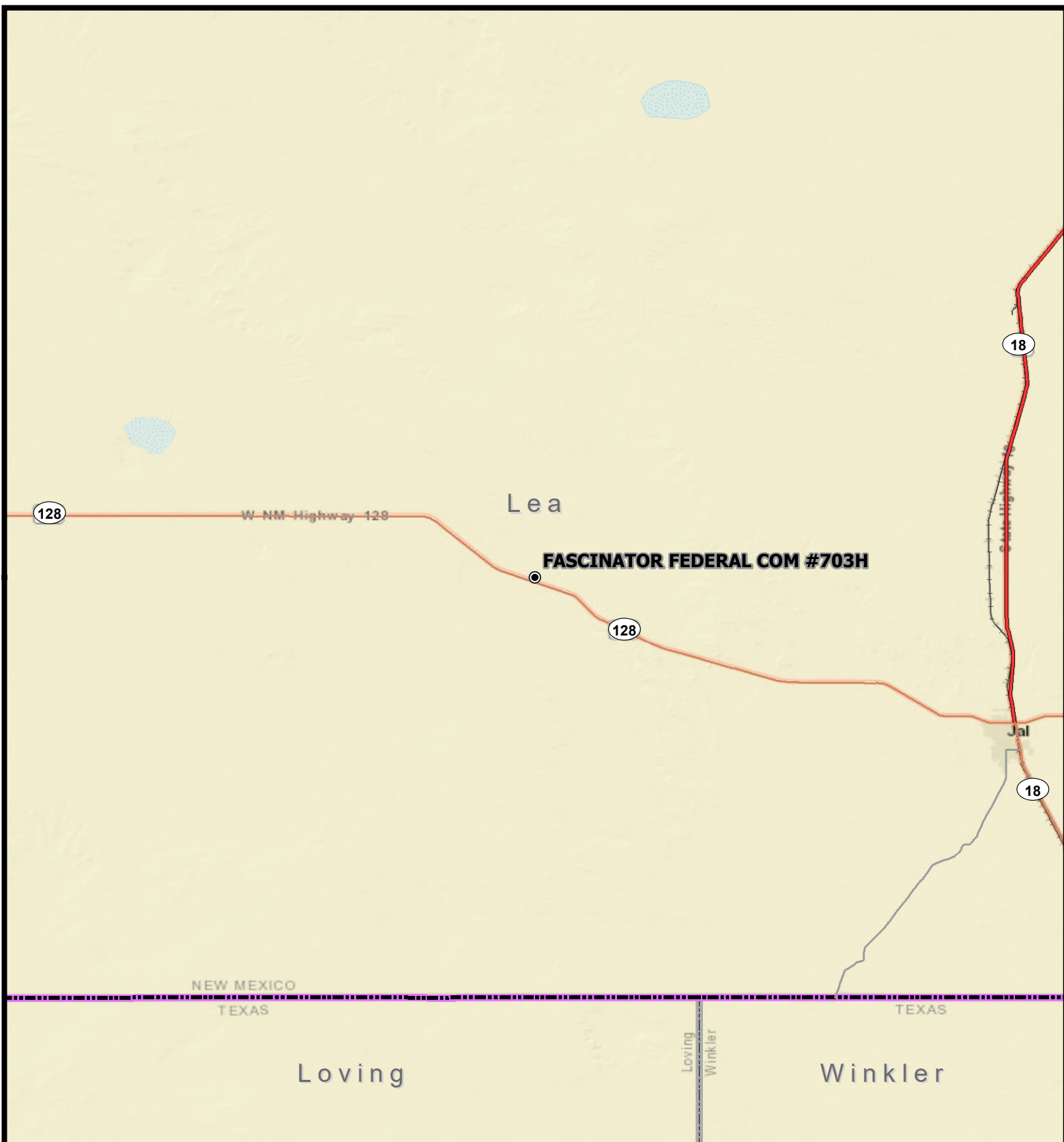
Respectfully submitted,
TETRA TECH

Clair Gonzales, P.G.,
Project Manager

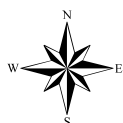
cc: Ike Tavaréz – COG
Dakota Neel - COG
Rebecca Haskell - COG
DeAnn Grant - COG

Figures

Document Path: C:\Users\MISTI\MORGAN\Desktop\project folder\212C-MD-01891 FASCINATOR FEDERAL COM #703H SPILL #1\IMXD\212C-MD-01891 FASCINATOR FEDERAL COM #703H SPILL #1\FIG.1.mxd



● SITE LOCATION



0 10,416.5 20,833

Approximate Scale in Feet

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



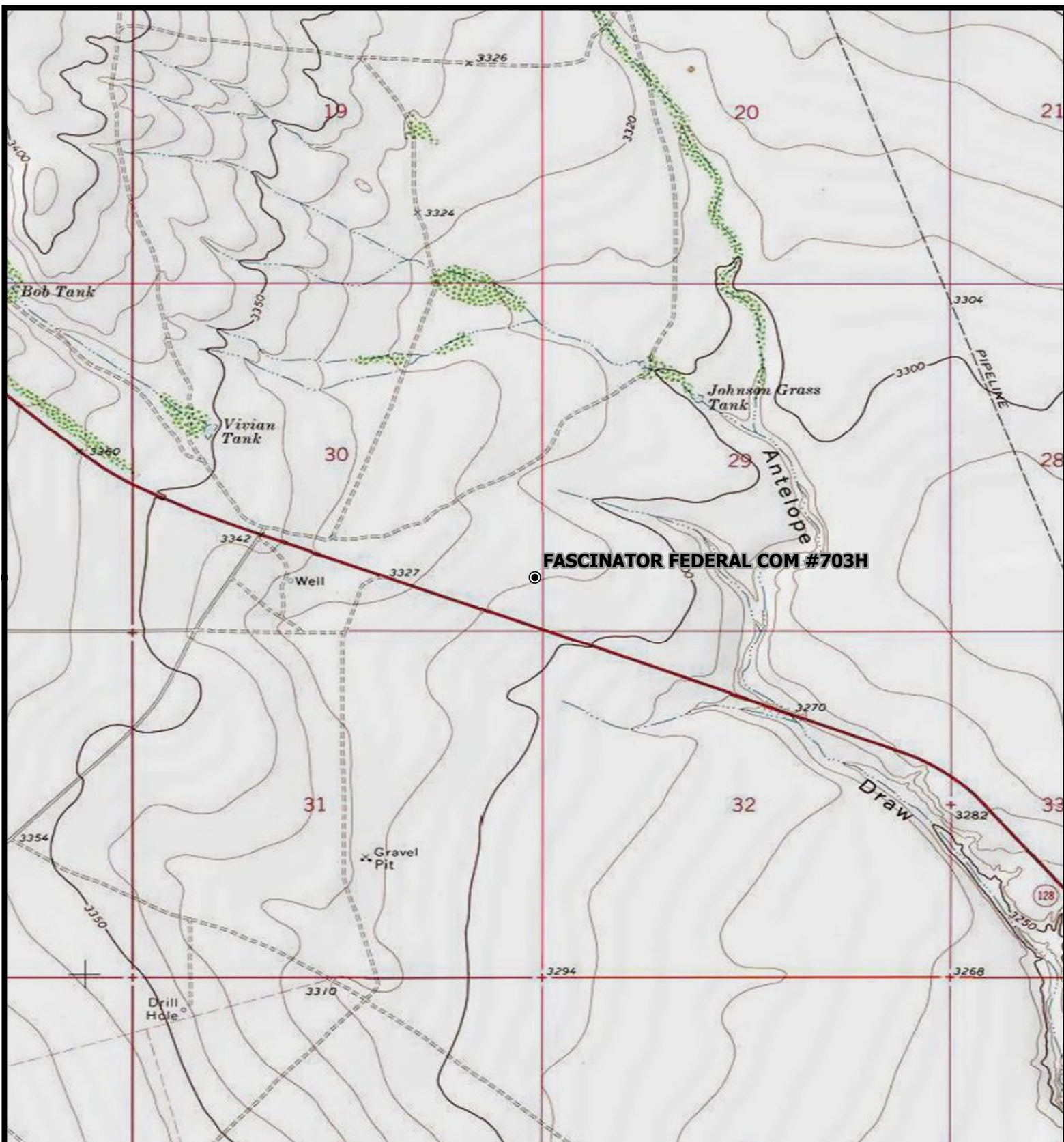
OVERVIEW MAP
FASCINATOR FEDERAL COM #703H SPILL 1
Property Located at coordinates 32.18334°,-103.39826°
LEA COUNTY, NEW MEXICO



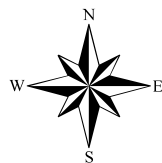
Project #:
212C-MD-01891

FIGURE
1

Document Path: C:\Users\MISTI\MORGAN\Desktop\project folder\212C-MD-01891 FASCINATOR FEDERAL COM #703H SPILL FIG 2.mxd



● SITE LOCATION



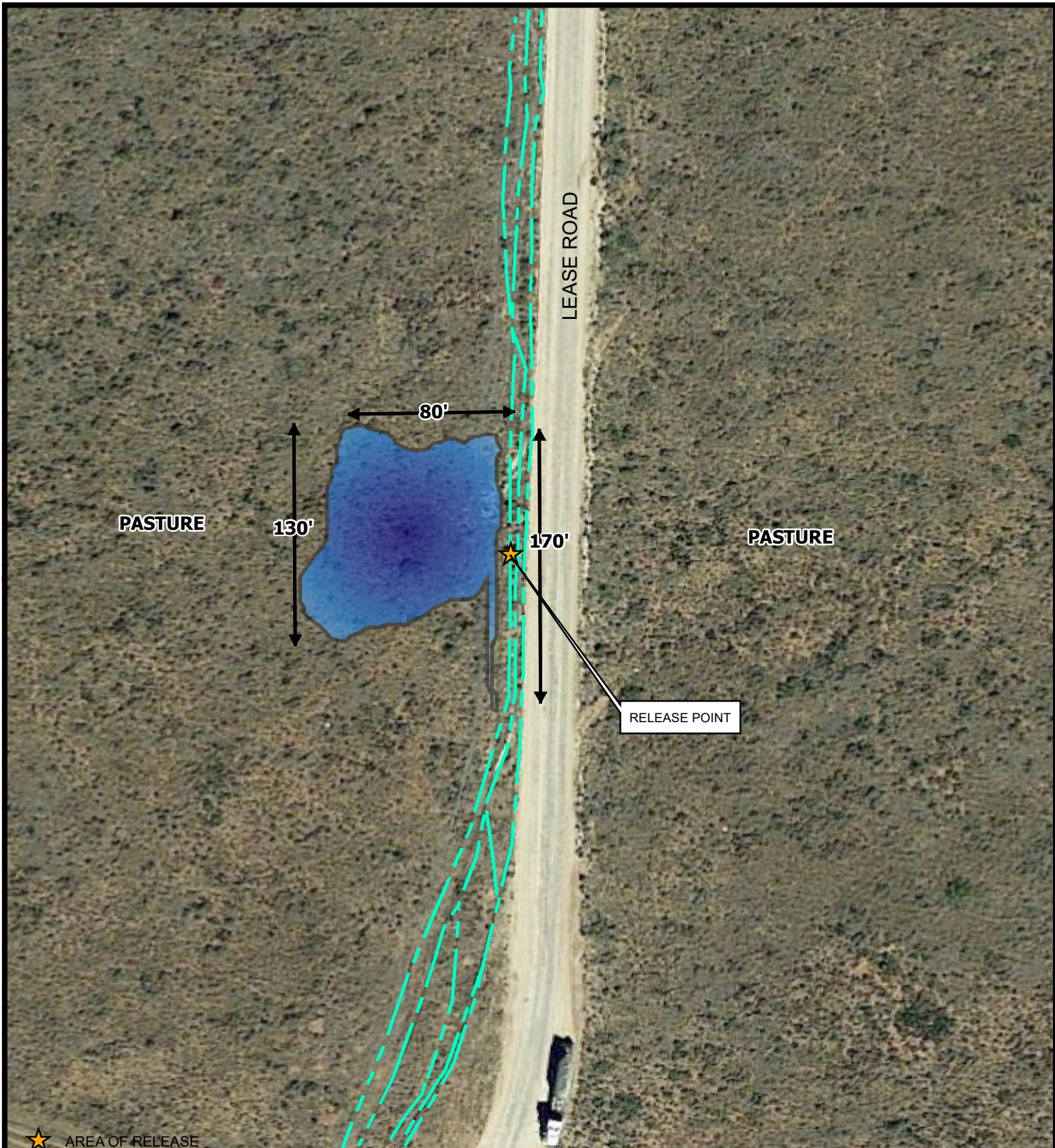
0 1,000 2,000
Approximate Scale in Feet

TOPOGRAPHIC MAP
FASCINATOR FEDERAL COM #703H SPILL 1
Property Located at coordinates 32.18334°,-103.39826°
LEA COUNTY, NEW MEXICO





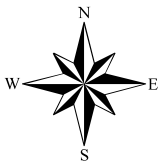
FIGURE
2

Date: 10/1/2019 Document Path: C:\Users\MIST\MORGAN\Desktop\project folder\212C-MD-01891 FASCINATOR FEDERAL COM #703H SPILL #1\WDO\212C-MD-01891 FASCINATOR FEDERAL COM #703H SPILL #1\FIG3.mxd



★ AREA OF RELEASE

 AFFECTED SPILL AREA
 FLOWLINE

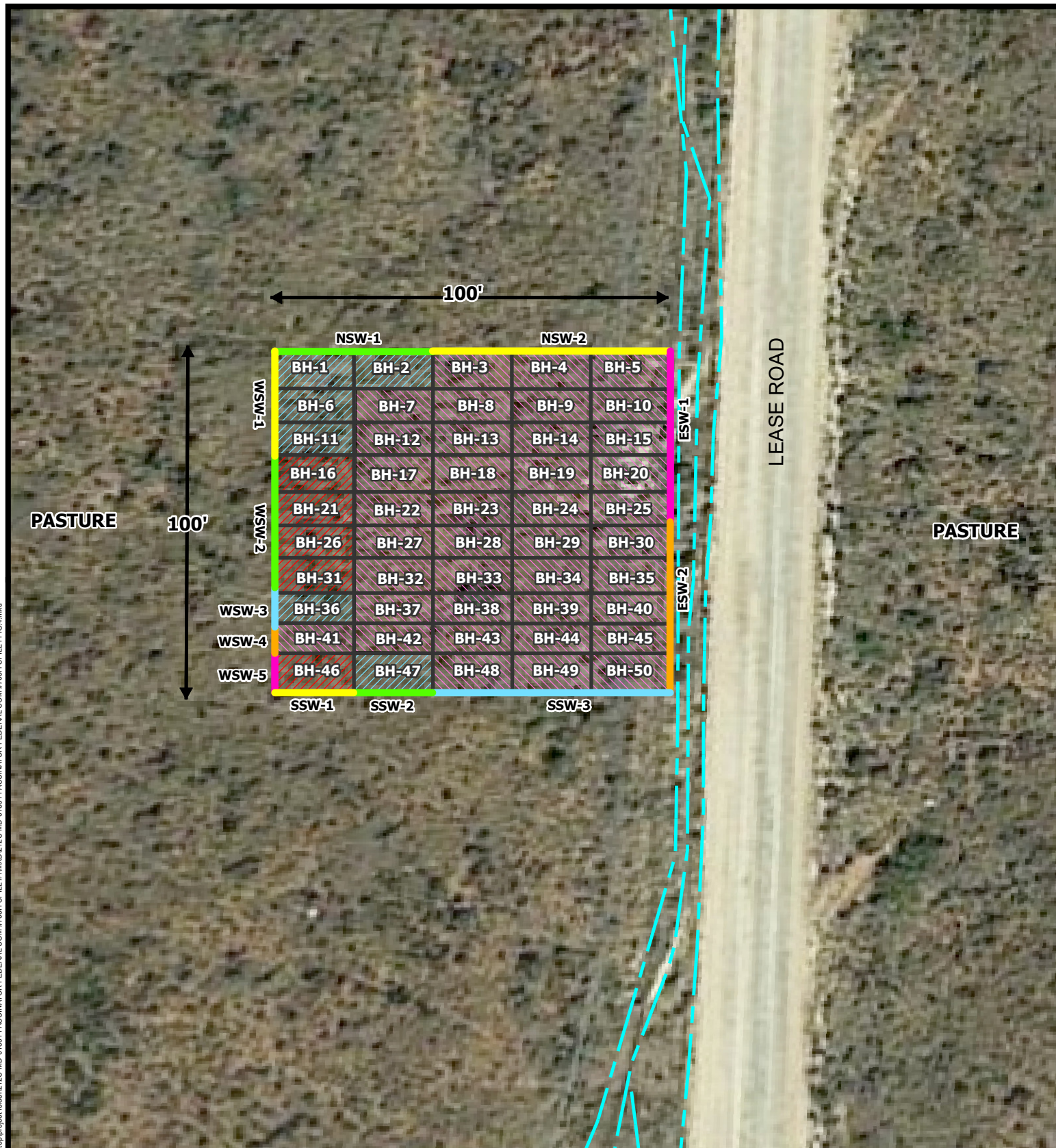


0 40 80
Approximate Scale in Feet

SPILL ASSESSMENT MAP
FASCINATOR FEDERAL COM #703H SPILL 1
Property Located at coordinates 32.18334°,-103.39826°
LEA COUNTY, NEW MEXICO



FIGURE
3



BH BOTTOM HOLE

1.0' EXCAVATED DEPTH AREA
3.0' EXCAVATED DEPTH AREA
4.0' EXCAVATED DEPTH AREA

SIDE WALL DESIGNATIONS
FLOWLINE

Source: "New Mexico", 32°11'0.02"N, 103°23'53.74"W, Google Earth, November 2017, September 13, 2019



0 20 40
Approximate Scale in Feet

EXCAVATION AREA & DEPTH MAP
FASCINATOR FEDERAL COM #703H SPILL 1
Property Located at coordinates 32.18334°,-103.39826°
LEA COUNTY, NEW MEXICO



FIGURE
4

Tables

Table 1
COG
Fascinator Fed Com #703 Spill #1 (07.10.19)
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)					Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total						
Bottomhole 1	8/29/2019	1.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottomhole 2	8/29/2019	1.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottomhole 3	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 4	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 5	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 6	8/29/2019	1.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Bottomhole 7	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 8	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottomhole 9	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 10	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 11	8/29/2019	1.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Bottomhole 12	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 13	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Bottomhole 14	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 15	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottomhole 16	8/29/2019	3.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

Table 1
COG
Fascinator Fed Com #703 Spill #1 (07.10.19)
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)					Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total						
Bottomhole 17	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
Bottomhole 18	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 19	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 20	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 21	8/29/2019	3.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottomhole 22	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
Bottomhole 23	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Bottomhole 24	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Bottomhole 25	8/29/2019	4.0		X	<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	640
	9/3/2019	4.5	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 26	8/29/2019	3.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottomhole 27	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 28	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 29	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 30	8/29/2019	4.0		X	<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	768
	9/3/2019	4.5	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottomhole 31	8/29/2019	3.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 32	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 33	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
Bottomhole 34	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 35	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
Bottomhole 36	8/29/2019	1.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Bottomhole 37	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 38	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Bottomhole 39	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0

Table 1
COG
Fascinator Fed Com #703 Spill #1 (07.10.19)
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)					Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total						
Bottomhole 40	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottomhole 41	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 42	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Bottomhole 43	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottomhole 44	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 45	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 46	8/29/2019	3.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottomhole 47	8/29/2019	1.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottomhole 48	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
Bottomhole 49	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottomhole 50	8/29/2019	4.0	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
WSW-1	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
WSW-2	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
WSW-3	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
WSW-4	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
WSW-5	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
NSW-1	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
NSW-2	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SSW-1	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SSW-2	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SSW-3	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
ESW-1	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
ESW-2	8/29/2019	-	X		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0

 Removed

Photos

Concho; Fascinator Federal Com #703H

Lea County, New Mexico



TETRA TECH



Facing South, viewing entire excavation



Facing East, viewing bottom holes 1 through 35 along with coinciding sidewalls

Concho Fascinator Federal Com #703H

Lea County, New Mexico



TETRA TECH



Facing North, viewing west and north sidewalls with coinciding bottom holes



Facing West, viewing southern portion of excavation

Appendix A

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	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody
--

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

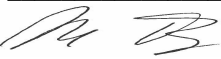
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - Fascinator Fed Com #703H
Lea County, New Mexico

23 South			34 East		
6 329	5	4	3	2	1 137
7	8 255	9	10	11	12
18	17	16 345	15	14	13
19	20	21	22 282	23 233	24
30	29	28	27	26	25
31	32 160 130	33	34	35	36

23 South			35 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

23 South			36 East		
6	5	4 160	3	2	1
7	8	9	10	11	12
18	17	16 220	15 149	14	13
19	20	21	22 400	23 143	24
30	29	28	27	26	25
31 189	32	33	34	35	36 127

24 South			34 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South			35 East		
6	5	4	3	2	1
7	8	9	10 300	11	12
18	17	16	15	14	13
19	20 97	21	22	23	24
30 139	29	28	27	26	25
31	32	33	34	35	36

24 South			36 East		
6	5	4 165	3	2	1
7	8	9	10	11	12
18	17	16	15 312	14	13
19	20	21	22	23 160	24
30	29	28	27	26	25
31	32	33 54 53	34	35	36

25 South			34 East		
6	5	4	3	2	1 260
7	8	9	10	11	12
18	17	16	15 135	14	13
19	20	21	22	23	24 300
30	29 50	28	27	26	25
31	32	33	34	35	36

25 South			35 East		
6	5 165	4	3 108	2	1
7	8	9	10	11	12
18 230	17	16	15	14	13
19	20	21 218	22	23	24
30 80	29	28	27	26	25
31	32	33	34	35	36

25 South			36 East		
6 295	5	4	3	2	1
7	8	9	10 300 180	11	12
18	17	16	15 120	14	13
19	20	21	22	23 53.7	24 455
30	29	28	27	26	25
31	32	33 80	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location



National Water Information System: Mapper

Sites

Map

Search

Search by Street Address:
32.18334 -103.39826

Search by Place Name:
Enter Place Name

Search by Site Number(s):
Enter Site Number(s)

Search by State/Territory:
Select an Area

Search by Watershed Region:
Select a Region


Surface-Water Sites

Groundwater Sites

Springs

Atmospheric Sites

Other Sites



Site Information



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321039103243402

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321039103243402 24S.35E.30.342331

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°10'39", Longitude 103°24'34" NAD27

Land-surface elevation 3,343 feet above NAVD88

The depth of the well is 176 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

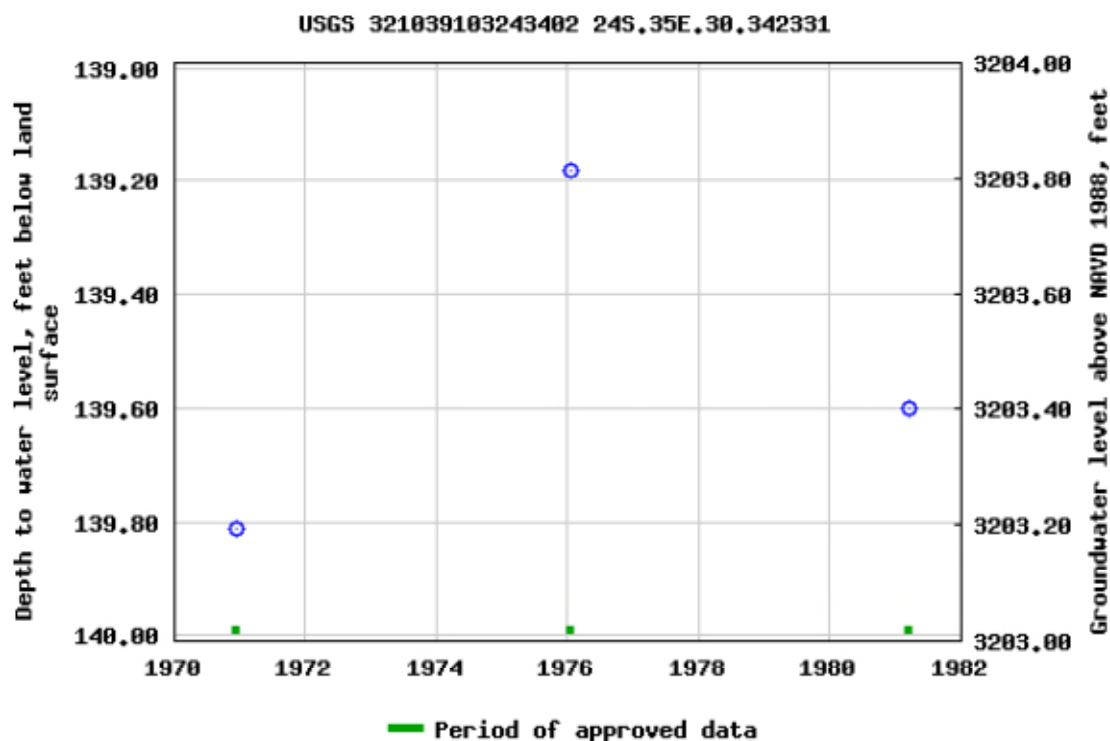
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

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[FOIA](#)

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[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-08-19 12:38:58 EDT

1.11 0.91 nadww01



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00366 POD1	CP	LE		4	1	1	10	24S	35E	654447	3567834*	1250		
CP 00573	CP	LE		1	4	1	10	24S	35E	654657	3567638*	405	300	105
CP 00839 POD1	CP	LE			4	3	30	24S	35E	650017	3561833*	175		
CP 00842 POD1	CP	LE			2	4	24	24S	35E	658834	3563982*	130		
CP 00845 POD1	CP	LE			1	3	10	24S	35E	654360	3567130*	190		
CP 01056 POD1	CP	LE		4	4	3	02	24S	35E	656465	3568304	5396	4399	997
CP 01057 POD1	CP	LE		4	2	3	02	24S	35E	656464	3568762	5390	4365	1025
CP 01119 POD2	CP	LE				4	23	24S	35E	657210	3564007	1572		
CP 01513 POD1	CP	LE		3	3	1	10	24S	35E	654184	3567350	186		
P 04623 POD4	P	RO		2	2	4	14	24S	35E	653797	3787492	250		

Average Depth to Water: **3021 feet**

Minimum Depth: **300 feet**

Maximum Depth: **4399 feet**

Record Count: 10

PLSS Search:

Township: 24S

Range: 35E

*UTM location was derived from PLSS - see Help

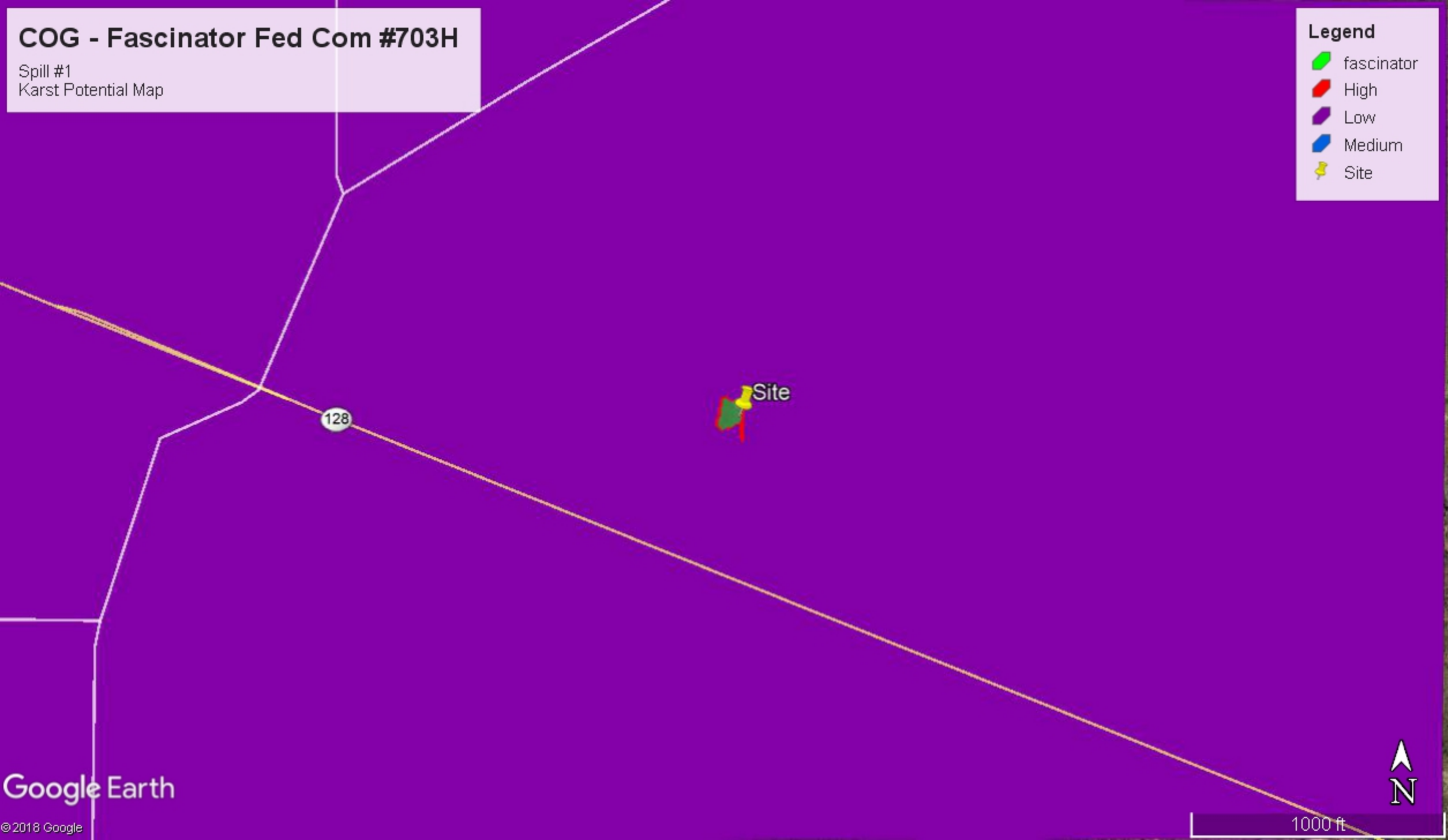
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

COG - Fascinator Fed Com #703H

Spill #1
Karst Potential Map

Legend

-  fascinator
-  High
-  Low
-  Medium
-  Site





NFHL Web Mapping Application



Data Layers

3333 ft

3329 ft

3313 ft

W NM Highway 128

128

W NM Highway 128

128

128

W NM Highway 128



Appendix C



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

August 30, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: FASCINATOR FED COM #703H

Enclosed are the results of analyses for samples received by the laboratory on 08/29/19 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 1 COMP 1' (H903006-01)

BTX 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	08/30/2019	ND	1.66	83.0	2.00	2.71	
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.5	2.00	3.02	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	2.17	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.25	104	6.00	2.76	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	207	104	200	1.56	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	215	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 74.8 % 41-142

Surrogate: 1-Chlorooctadecane 84.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 2 COMP 1' (H903006-02)

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	08/29/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/29/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2019	ND	6.04	101	6.00	2.64		
Total BTEx	<0.300	0.300	08/29/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	207	104	200	1.56	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	215	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 3 COMP 4' (H903006-03)

BTX 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	08/29/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/29/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/29/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 4 COMP 4' (H903006-04)

BTX 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	08/29/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/29/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/29/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 5 COMP 4' (H903006-05)

BTX 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	08/29/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/29/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/29/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Analytical Results For:

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Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 6 COMP 1' (H903006-06)

BTX 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	08/29/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/29/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/29/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

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Analytical Results For:

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Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 7 COMP 4' (H903006-07)

BTX 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	08/29/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/29/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/29/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/29/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/29/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 8 COMP 4' (H903006-08)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 9 COMP 4' (H903006-09)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64	
Total BTX	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Analytical Results For:

 TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 10 COMP 4' (H903006-10)

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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Analytical Results For:

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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 11 COMP 1' (H903006-11)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/30/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 12 COMP 4' (H903006-12)

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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

 Received: 08/29/2019
 Reported: 08/30/2019
 Project Name: FASCINATOR FED COM #703H
 Project Number: 07/10/2019
 Project Location: COG - LEA COUNTY, NM

 Sampling Date: 08/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 13 COMP 4' (H903006-13)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01	
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64	
Total BTX	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 14 COMP 4' (H903006-14)

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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 15 COMP 4' (H903006-15)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 16 COMP 3' (H903006-16)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 17 COMP 4' (H903006-17)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 18 COMP 4' (H903006-18)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 19 COMP 4' (H903006-19)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 20 COMP 4' (H903006-20)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 21 COMP 3' (H903006-21)

BTX 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	08/30/2019	ND	1.60	80.2	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.89	94.4	2.00	2.64		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	3.13		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.04	101	6.00	2.64		
Total BTX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 22 COMP 4' (H903006-22)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTEX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	222	111	200	1.57	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	222	111	200	0.650	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 23 COMP 4' (H903006-23)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 67.2 % 41-142

Surrogate: 1-Chlorooctadecane 73.3 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 24 COMP 4' (H903006-24)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 76.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.2 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 25 COMP 4' (H903006-25)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTEx	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 72.1 % 41-142

Surrogate: 1-Chlorooctadecane 78.6 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 26 COMP 3' (H903006-26)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 70.4 % 41-142

Surrogate: 1-Chlorooctadecane 74.1 % 37.6-147

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Analytical Results For:

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MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 27 COMP 4' (H903006-27)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 66.6 % 41-142

Surrogate: 1-Chlorooctadecane 70.7 % 37.6-147

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Analytical Results For:

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 28 COMP 4' (H903006-28)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 67.7 % 41-142

Surrogate: 1-Chlorooctadecane 71.7 % 37.6-147

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Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 29 COMP 4' (H903006-29)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 71.3 % 41-142

Surrogate: 1-Chlorooctadecane 76.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 30 COMP 4' (H903006-30)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	08/30/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 62.7 % 41-142

Surrogate: 1-Chlorooctadecane 67.7 % 37.6-147

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Analytical Results For:

TETRA TECH
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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 31 COMP 3' (H903006-31)

BTX 8021B		mg/kg	Analyzed By: BF					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 71.7 % 41-142

Surrogate: 1-Chlorooctadecane 77.4 % 37.6-147

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Analytical Results For:

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Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 32 COMP 4' (H903006-32)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 65.3 % 41-142

Surrogate: 1-Chlorooctadecane 69.6 % 37.6-147

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Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 33 COMP 4' (H903006-33)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	195	97.5	200	5.89	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	201	101	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 34 COMP 4' (H903006-34)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	195	97.5	200	5.89	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	201	101	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 35 COMP 4' (H903006-35)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	195	97.5	200	5.89	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	201	101	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 36 COMP 1' (H903006-36)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	195	97.5	200	5.89	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	201	101	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Analytical Results For:

TETRA TECH
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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 37 COMP 4' (H903006-37)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16	
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1	
Total BTX	<0.300	0.300	08/30/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	195	97.5	200	5.89	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	201	101	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

 Received: 08/29/2019
 Reported: 08/30/2019
 Project Name: FASCINATOR FED COM #703H
 Project Number: 07/10/2019
 Project Location: COG - LEA COUNTY, NM

 Sampling Date: 08/29/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 38 COMP 4' (H903006-38)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTEx	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	195	97.5	200	5.89	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	201	101	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 39 COMP 4' (H903006-39)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTEx	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	195	97.5	200	5.89	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	201	101	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Analytical Results For:

TETRA TECH
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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 40 COMP 4' (H903006-40)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 66.9 % 41-142

Surrogate: 1-Chlorooctadecane 70.5 % 37.6-147

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Analytical Results For:

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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 08/29/2019
Reported: 08/30/2019
Project Name: FASCINATOR FED COM #703H
Project Number: 07/10/2019
Project Location: COG - LEA COUNTY, NM

Sampling Date: 08/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE - 41 COMP 4' (H903006-41)

BTX 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	08/30/2019	ND	2.06	103	2.00	1.16		
Toluene*	<0.050	0.050	08/30/2019	ND	2.03	102	2.00	1.09		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.10	105	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	4.95	82.5	6.00	22.1		
Total BTX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 66.3 % 41-142

Surrogate: 1-Chlorooctadecane 70.5 % 37.6-147

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Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 42 COMP 4' (H903006-42)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTEx	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	183	91.6	200	1.71	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	194	97.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 69.1 % 41-142

Surrogate: 1-Chlorooctadecane 72.9 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 43 COMP 4' (H903006-43)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 74.1 % 41-142

Surrogate: 1-Chlorooctadecane 78.4 % 37.6-147

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 44 COMP 4' (H903006-44)

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	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTEx	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 63.5 % 41-142

Surrogate: 1-Chlorooctadecane 66.9 % 37.6-147

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Analytical Results For:

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 901 WEST WALL STREET , STE 100
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 Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 45 COMP 4' (H903006-45)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 65.3 % 41-142

Surrogate: 1-Chlorooctadecane 69.3 % 37.6-147

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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 46 COMP 3' (H903006-46)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTEx	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 73.3 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 37.6-147

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Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 47 COMP 1' (H903006-47)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTEx	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 48 COMP 4' (H903006-48)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTEx	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 57.4 % 41-142

Surrogate: 1-Chlorooctadecane 64.8 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 49 COMP 4' (H903006-49)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTEx	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 70.1 % 41-142

Surrogate: 1-Chlorooctadecane 75.3 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 50 COMP 4' (H903006-50)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTEx	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 76.0 % 41-142

Surrogate: 1-Chlorooctadecane 80.4 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: WSW-1 COMP 1' (H903006-51)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 83.5 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: WSW-2 COMP 3' (H903006-52)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 74.0 % 41-142

Surrogate: 1-Chlorooctadecane 81.8 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: WSW-3 COMP 1' (H903006-53)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 74.8 % 41-142

Surrogate: 1-Chlorooctadecane 80.7 % 37.6-147

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: WSW-4 COMP 4' (H903006-54)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 72.1 % 41-142

Surrogate: 1-Chlorooctadecane 76.4 % 37.6-147

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Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: WSW-5 COMP 3' (H903006-55)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 72.6 % 41-142

Surrogate: 1-Chlorooctadecane 76.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: NSW-1 COMP 1' (H903006-56)

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	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 76.1 % 41-142

Surrogate: 1-Chlorooctadecane 77.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: NSW-2 COMP 4' (H903006-57)

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	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 70.0 % 41-142

Surrogate: 1-Chlorooctadecane 77.4 % 37.6-147

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Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SSW-1 COMP 3' (H903006-58)

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	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 70.1 % 41-142

Surrogate: 1-Chlorooctadecane 74.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SSW-2 COMP 1' (H903006-59)

BTX 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	08/30/2019	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48	
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61	
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62	
Total BTX	<0.300	0.300	08/30/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 73.9 % 41-142

Surrogate: 1-Chlorooctadecane 78.6 % 37.6-147

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Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: SSW-3 COMP 4' (H903006-60)

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	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEx	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 65.4 % 41-142

Surrogate: 1-Chlorooctadecane 69.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: ESW-1 COMP 4' (H903006-61)

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	08/30/2019	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2019	ND	2.13	107	2.00	5.48		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	2.07	104	2.00	4.61		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	6.32	105	6.00	4.62		
Total BTEX	<0.300	0.300	08/30/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 65.8 % 41-142

Surrogate: 1-Chlorooctadecane 70.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	08/29/2019	Sampling Date:	08/29/2019
Reported:	08/30/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	07/10/2019	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: ESW-2 COMP 4' (H903006-62)

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	08/30/2019	ND	1.97	98.4	2.00	1.01		
Toluene*	<0.050	0.050	08/30/2019	ND	1.97	98.5	2.00	1.50		
Ethylbenzene*	<0.050	0.050	08/30/2019	ND	1.99	99.7	2.00	0.605		
Total Xylenes*	<0.150	0.150	08/30/2019	ND	5.91	98.5	6.00	0.0981		
Total BTEX	<0.300	0.300	08/30/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/30/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2019	ND	210	105	200	0.729	
DRO >C10-C28*	<10.0	10.0	08/30/2019	ND	213	106	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/30/2019	ND					

Surrogate: 1-Chlorooctane 63.3 % 41-142

Surrogate: 1-Chlorooctadecane 67.6 % 37.6-147

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Notes and Definitions

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 65 of 71

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Tetra Tech</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Mike Carmena</u>				P.O. #:															
Address: <u>901 W Wall</u>				Company: <u>Concho</u>															
City: <u>Midland</u>				Attn: <u>Ike Tovar</u>															
State: <u>TX</u>				Address: <u>600 W Illinois</u>															
Phone #: <u>432-664-8185</u>				City: <u>Midland</u>															
Fax #:				State: <u>TX</u>															
Project #:				Zip: <u>79701</u>															
Project Name: <u>Fascinator Fed Com # 7034</u>				Phone #: <u>432-701-8630</u>															
Project Location: <u>Lea Co, NM</u>				Fax #:															
Sampler Name: <u>Devon Dominguez</u>																			

FOR LAB USE ONLY		LAB I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX					PRESERV		SAMPLING		DATE		TIME		ANALYSIS											

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Tetra Tech</u>		P.O. #:		
Project Manager: <u>Mike Carmona</u>		Company: <u>Concho</u>		
Address: <u>901 W Wall</u>		Attn: <u>Ike Tavares</u>		
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u>		Address: <u>600 W Illinois</u>		
Phone #: <u>432-664-8185</u> Fax #: <u> </u>		City: <u>Midland</u>		
Project #: <u> </u> Project Owner: <u> </u>		State: <u>TX</u> Zip: <u>79701</u>		
Project Name: <u>Fascinator Fed Com # 7034</u>		Phone #: <u>432-701-8630</u>		
Project Location: <u>Lea Concho</u> <u>#71012019</u>		Fax #: <u> </u>		
Sampler Name: <u>Devin Dominguez</u>				

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			ACID/BASE:	ICE / COOL	OTHER :	TPH	BTEX	Chlorides	
<u>HQ03006</u>	<u>Bottomhole - 21 Comp 3'</u>	<u>C</u>	<u>1</u>															
<u>21</u>	<u>" - 28 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>22</u>	<u>" - 23 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>23</u>	<u>" - 24 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>24</u>	<u>" - 25 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>25</u>	<u>" - 26 Comp 3'</u>	<u>C</u>	<u>1</u>															
<u>26</u>	<u>" - 27 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>27</u>	<u>" - 28 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>28</u>	<u>" - 29 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>29</u>	<u>" - 30 Comp 4'</u>	<u>C</u>	<u>1</u>															
<u>30</u>	<u>" - 30 Comp 4'</u>	<u>C</u>	<u>1</u>															

Reinquinshed By: <u>[Signature]</u>	Date: <u>8/29</u>	Received By: <u>[Signature]</u>	Date: <u>8/29/19</u>
Time: <u>15:15</u>	Time: <u> </u>	Time: <u> </u>	Time: <u> </u>

Delivered By: (Circle One) <u>1.92</u>	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: <u>Corrected 2.32</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<u>TP.</u>

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Tetra Tech		P.O. #:		
Project Manager: Mike Carmona		Company: Concho		
Address: 901 W Wall		Attn: Ike Tavares		
City: Midland State: TX Zip: 79701		Address: 600 W Illinois		
Phone #: 432-664-8185 Fax #: ---		City: Midland		
Project #: --- Project Owner: ---		State: TX Zip: 79701		
Project Name: Fascinator Fed Com # 7034		Phone #: 432-701-8630		
Project Location: Lea Co, NM 7110/2019		Fax #: ---		
Sampler Name: Devin Dominguez				

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			ACID/BASE:	ICE / COOL	OTHER :	TPH	BTEX	Chlorides
4903006	Bottomhole - 31 Comp 3'	C 1	1	X						8/29/19		X	X	X			
32	" 32 Comp 4'	C 1	1	X								X	X	X			
33	" 33 Comp 4'	C 1	1	X								X	X	X			
34	" 34 Comp 4'	C 1	1	X								X	X	X			
35	" 35 Comp 4'	C 1	1	X								X	X	X			
36	" 36 Comp 1'	C 1	1	X								X	X	X			
37	" 37 Comp 4'	C 1	1	X								X	X	X			
38	" 38 Comp 4'	C 1	1	X								X	X	X			
39	" 39 Comp 4'	C 1	1	X								X	X	X			
40	" 40 Comp 4'	C 1	1	X								X	X	X			

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Relinquished By: 

Date: **8/29**

Received By: 

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Relinquished By: 

Date: **15:15**

Received By: 

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Delivered By: (Circle One) **1.92**

#497

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: 

Sampler - UPS - Bus - Other: **Corrected 2.32**

#497

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: 

Sampler - UPS - Bus - Other: **Corrected 2.32**

#497

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: 



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Mike Carmona		Company: Goncho					
Address: 901 W Wall		Attn: Ike Tavares					
City: Midland State: TX Zip: 79701		Address: 600 W Illinois					
Phone #: 432-664-8185 Fax #: 432-664-8185		City: Midland					
Project #: 710/2019		State: TX Zip: 79701					
Project Name: Fascinator Fed Com # 703H		Phone #: 432-701-8630					
Project Location: Lea County		Fax #: 432-701-8630					
Sampler Name: Devin Dominguez							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H903006	Bottomhole - 41 Comp 4'	C	1	X								8/29/19		X	X	X
41	" - 42 Comp 4'	C	1	X										X	X	X
42	" - 43 Comp 4'	C	1	X										X	X	X
43	" - 44 Comp 4'	C	1	X										X	X	X
44	" - 45 Comp 4'	C	1	X										X	X	X
45	" - 46 Comp 3'	C	1	X										X	X	X
46	" - 47 Comp 1'	C	1	X										X	X	X
47	" - 48 Comp 4'	C	1	X										X	X	X
48	" - 49 Comp 4'	C	1	X										X	X	X
49	" - 50 Comp 4'	C	1	X										X	X	X
50	" - 51 Comp 4'	C	1	X										X	X	X

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Relinquished By: 	Date: 8/29	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 15:15	Date: 8/29	Received By: Janora Aldridge	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) 1.92	#97	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: (Initials) TD	
Sampler - UPS - Bus - Other: Corrected 8:30	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	Push!!	
REMARKS:				



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Tetra Tech</u>				BILL TO				ANALYSIS REQUEST			
Project Manager: <u>Mike Casanova</u>				P.O. #:							
Address: <u>901 W Wall</u>				Company: <u>Concho</u>							
City: <u>Midland</u>				Attn: <u>IKC Tovariz</u>							
Phone #: <u>432-664-8165</u>				Address: <u>600 W Illinois</u>							
State: <u>TX</u>				City: <u>Midland</u>							
Zip: <u>79701</u>				State: <u>TX</u>				Zip: <u>79701</u>			
Project #:				Phone #: <u>432-701-8630</u>							
Project Name: <u>Fascinator Fed Com # 703H A</u>				Fax #:							
Project Location: <u>Lea Co, NM</u>				7/10/2019							
Sampler Name: <u>Devin Dominguez</u>											

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chlorides	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
17903006																
51	WSXU-1 Comp 1'	C 1		X												
52	WSXU-2 Comp 3'	C 1		X												
53	WSXU-3 Comp 1'	C 1		X												
54	WSXU-4 Comp 4'	C 1		X												
55	WSXU-5 Comp 3'	C 1		X												
56	NSXU-1 Comp 1'	C 1		X												
57	NSXU-2 Comp 4'	C 1		X												
58	SSXU-1 Comp 3'	C 1		X												
59	SSXU-2 Comp 1'	C 1		X												
60	SSXU-3 Comp 4'	C 1		X												

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Relinquished By: 	Date: <u>8/29</u>	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Time: <u>15:15</u>	Date:	Time:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:
Reinquired By:	Time:	Received By:	REMARKS:

Delivered By: (Circle One) <u>1.92</u> #97	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>YB</u>
Sampler - UPS - Bus - Other: <u>Consolidated 2330</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:

Ruse!!



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 71 of 71

September 04, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: FASCINATOR FED COM #703H

Enclosed are the results of analyses for samples received by the laboratory on 09/03/19 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	09/03/2019	Sampling Date:	09/03/2019
Reported:	09/04/2019	Sampling Type:	Soil
Project Name:	FASCINATOR FED COM #703H	Sampling Condition:	Cool & Intact
Project Number:	(7/10/2019)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA COUNTY, NM		

Sample ID: BOTTOM HOLE - 25 COMP 4.5' (H903033-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2019	ND	2.07	104	2.00	9.14	
Toluene*	<0.050	0.050	09/04/2019	ND	2.07	104	2.00	7.57	
Ethylbenzene*	<0.050	0.050	09/04/2019	ND	2.09	105	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/04/2019	ND	6.26	104	6.00	8.31	
Total BTEX	<0.300	0.300	09/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/04/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2019	ND	203	101	200	2.19	
DRO >C10-C28*	<10.0	10.0	09/04/2019	ND	211	105	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	09/04/2019	ND					

Surrogate: 1-Chlorooctane 65.1 % 41-142

Surrogate: 1-Chlorooctadecane 67.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TETRA TECH
MIKE CARMONA
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 09/03/2019
Reported: 09/04/2019
Project Name: FASCINATOR FED COM #703H
Project Number: (7/10/2019)
Project Location: COG - LEA COUNTY, NM

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

Sample ID: BOTTOM HOLE - 30 COMP 4.5' (H903033-02)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2019	ND	2.07	104	2.00	9.14	
Toluene*	<0.050	0.050	09/04/2019	ND	2.07	104	2.00	7.57	
Ethylbenzene*	<0.050	0.050	09/04/2019	ND	2.09	105	2.00	8.65	
Total Xylenes*	<0.150	0.150	09/04/2019	ND	6.26	104	6.00	8.31	
Total BTEx	<0.300	0.300	09/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/04/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2019	ND	203	101	200	2.19	
DRO >C10-C28*	<10.0	10.0	09/04/2019	ND	211	105	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	09/04/2019	ND					

Surrogate: 1-Chlorooctane 65.4 % 41-142

Surrogate: 1-Chlorooctadecane 67.4 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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.
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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Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

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Relinquished By:	Date:	a/3	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
	Time:	7:55		Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:		Received By:	REMARKS:			
	Time:						
Delivered By: (Circle One)	3.9c	#47	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials)	Push!!		
Sampler - UPS - Bus - Other:	Corrected 4.3c						

Appendix D