	SITE INFORMATION									
	Re	port Type:	Closure F	Report	1RP-52	255				
General Site I		. ,		•						
Site:		Stratocaster	20 Federal #3	Н						
Company:		COG Operati	ing LLC							
	nship and Range		Sec. 20	T 23S	R 34E					
Lease Numbe	er:	API No. 30-02	25-41447							
County:		Lea County								
GPS:			32.283769			-103.4	489961			
Surface Owne	e e ' e '	Federal								
Mineral Owner Directions:	er:	From the interes		00 and Dal	ara Dania Del te	aval saste -	n Delaware Basin Rd for			
			5.10 miles, turn east onto lease road and continue for 0.70 mi to Y in the road and continue northeast for 0.10 mi, turn east for 0.50 mi to location							
Release Data:										
Release Data:		10/22/2018								
	d:	10/22/2018 Oil and Produ	iced Water							
Date Released	d: ·		uced Water							
Date Released Type Release: Source of Con Fluid Released	d: : tamination: d:	Oil and Produ Wellhead 3 bbls oil & 3	bbls water							
Date Released Type Release: Source of Con Fluid Released Fluids Recove	d: tamination: d: red:	Oil and Produ Wellhead	bbls water							
Date Released Type Release: Source of Con Fluid Released	d: tamination: d: red:	Oil and Produ Wellhead 3 bbls oil & 3	bbls water							
Date Released Type Release: Source of Con Fluid Released Fluids Recove	d: tamination: d: red:	Oil and Produ Wellhead 3 bbls oil & 3	bbls water		Clair Gonzal	les				
Date Released Type Release: Source of Con Fluid Released Fluids Recover	tamination: red: nunication:	Oil and Produ Wellhead 3 bbls oil & 3 2 bbls oil & 2	bbls water		Clair Gonzal Tetra Tech	les				
Date Released Type Release: Source of Con Fluid Released Fluids Recover Official Comm Name:	tamination: d: red: nunication: lke Tavarez	Oil and Produ Wellhead 3 bbls oil & 3 2 bbls oil & 2	bbls water							
Date Released Type Release: Source of Con Fluid Released Fluids Recover Official Comm Name: Company:	tamination: d: red: nunication: lke Tavarez COG Operating, L	Oil and Produ Wellhead 3 bbls oil & 3 2 bbls oil & 2	bbls water		Tetra Tech					
Date Released Type Release: Source of Con Fluid Released Fluids Recover Official Comm Name: Company:	tamination: d: red: nunication: lke Tavarez COG Operating, L One Concho Cen	Oil and Produ Wellhead 3 bbls oil & 3 2 bbls oil & 2 LC ter e.	bbls water		Tetra Tech 901 West W	all Street				
Date Released Type Release: Source of Con Fluid Released Fluids Recover Official Comm Name: Company: Address:	tamination: d: red: nunication: lke Tavarez COG Operating, L One Concho Cen 600 W. Illinois Av Midland Texas, 79	Oil and Produ Wellhead 3 bbls oil & 3 2 bbls oil & 2 LC ter e.	bbls water		Tetra Tech 901 West W Suite 100 Midland, Tex	'all Street				
Date Released Type Release: Source of Con Fluid Released Fluids Recover Official Comm Name: Company: Address:	tamination: d: red: nunication: lke Tavarez COG Operating, L One Concho Cen 600 W. Illinois Av Midland Texas, 79	Oil and Produ Wellhead 3 bbls oil & 3 2 bbls oil & 2 LC ter e.	bbls water		Tetra Tech 901 West W Suite 100	'all Street				

Site Characterization	
Depth to Groundwater:	345' below surface

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				



August 5, 2019

Mr. Dylan Rose-Coss **Environmental Engineer Specialist** Oil Conservation Division. District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure for the COG Operating, LLC, Stratocaster 20 Federal #3H, Unit O, Section 20, Township 23 South, Range 34 East, Lea County, New Mexico. 1RP-5255

Mr. Rose-Coss:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG) to assess a release that occurred at the Stratocaster 20 Federal #3H, Unit O, Section 20, Township 23 South, Range 34 East, Lea County, New Mexico (Site). The spill site coordinates are 32.283769°, -103.489961°. The site location is shown on Figures 1 and 2.

### Background

According to the State of New Mexico C-141 Report, the release occurred on October 22, 2018, and released approximately 3 barrels of oil and 3 barrels of produced water while tripping out of the hole. A vacuum truck was used to remove all freestanding fluids, recovering approximately 2 barrels of oil and 2 barrels of produced water. The release impacted an area on the pad measuring approximately 45' x 45' and 110' x 160' and overspray from the release impacted an area in the pasture measuring approximately 80' x 145'. The 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. Additionally, the site is located in a low karst potential area. No wells are listed in Section 20 on the New Mexico Office of the State Engineer's (NMOSE) database, USGS National Water Information System, or the Geology and Ground-Water Conditions in Southern Lea County, New Mexico (Report 6). The nearest well listed is in Section 16 on the USGS National Water Information System, approximately 0.7 miles north of the site, and has a reported depth to groundwater of 345 feet below surface. The site characterization 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 (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 20,00 mg/kg.

### **Soil Assessment and Analytical Results**

### Auger Holes

On November 20, 2018, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of seven (7) auger holes (AH-1 through AH-7) were installed in the release footprint and overspray area to total depths ranging from 0-6" and 1.0'-1.5' below surface. Deeper samples were not collected due to a dense formation in the area. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples collected showed benzene, total BTEX, or chloride concentrations above the RRALs. Additionally, the areas of auger holes (AH-1, AH-2, AH-5, AH-6, and AH-7) showed TPH concentrations below the RRALs. However, the areas of auger holes (AH-3 and AH-4) showed TPH (GRO+DRO) concentrations of 3,948 mg/kg (AH-3) and 6,556 mg/kg (AH-4) at 0-6" below surface.

### Trenches

Based on the laboratory data, Tetra Tech personnel returned to the site on December 20, 2018 to install two (2) backhoe sample trenches (T-1 and T-2) in the areas of auger holes (AH-3 and AH-4) in order to vertically delineate the TPH concentrations detected. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed TPH, benzene, or total BTEX concentrations above the laboratory reporting limits. Additionally, no chloride concentrations above the RRAL was detected.

### **Additional Sampling**

Tetra Tech personnel returned to the site from June 26<sup>th</sup>-June 28<sup>th</sup>, 2019, to collect deeper samples in the areas of auger holes (AH-1 and AH-2). Two additional trenches (T-1 and T-2) were installed in the areas of auger holes (AH-1 and AH-2) to total depths of 2.0'-3.0' below surface. The samples were submitted to the laboratory for chloride analysis by EPA method



300.0. The trench locations are shown on Figure 3 and the laboratory analysis is summarized on Table 1.

Referring to Table 1, none of the samples collected showed chloride concentrations above 600 mg/kg.

### **Remediation Activities**

Tetra Tech submitted a work plan dated January 10, 2019, which was approved. Tetra Tech personnel returned to the site from July 14<sup>th</sup>-July 15<sup>th</sup>, 2019, to supervise the remediation activities. The areas of auger holes (AH-3 and AH-4) were excavated to total depths ranging from 0.5' to 1.5' below surface.

Composite confirmation bottom hole and sidewall samples were collected every 200 square feet to ensure proper removal of the impacted soils. A total of sixteen (16) bottom hole samples (Bottom Hole #1 through Bottom Hole #16) and eleven (11) sidewall samples (North Sidewall 1 through North Sidewall 3, East Sidewall 1 through East Sidewall 3, West Sidewall 1 through West Sidewall 3, South Sidewall 1, and South Sidewall 2) were collected. All samples were submitted to the laboratory for THP analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 2. The sample locations and excavation depths are shown on Figure 4.

Referring to Table 2, none of the final confirmation samples showed benzene, total BTEX, TPH, or chlorides above the RRALs.

Once the excavation was complete, the areas will be backfilled with clean material to surface grade. Approximately 140 cubic yards was excavated and hauled for proper disposal.

#### Conclusion

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

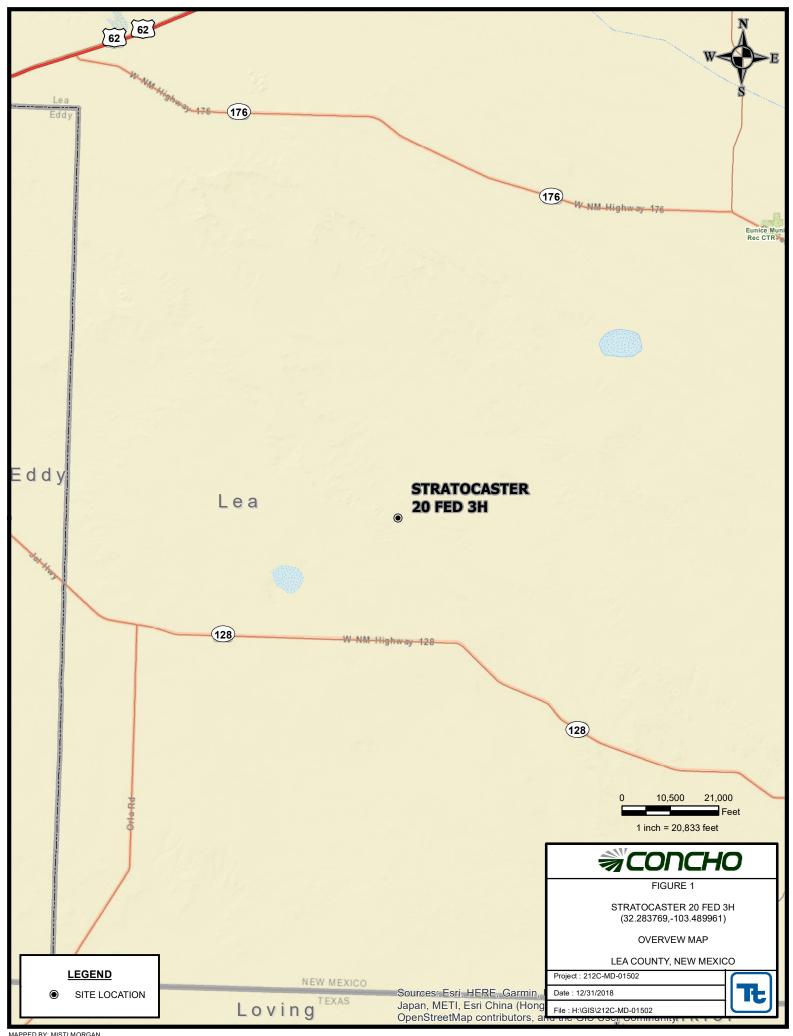
Respectfully submitted,

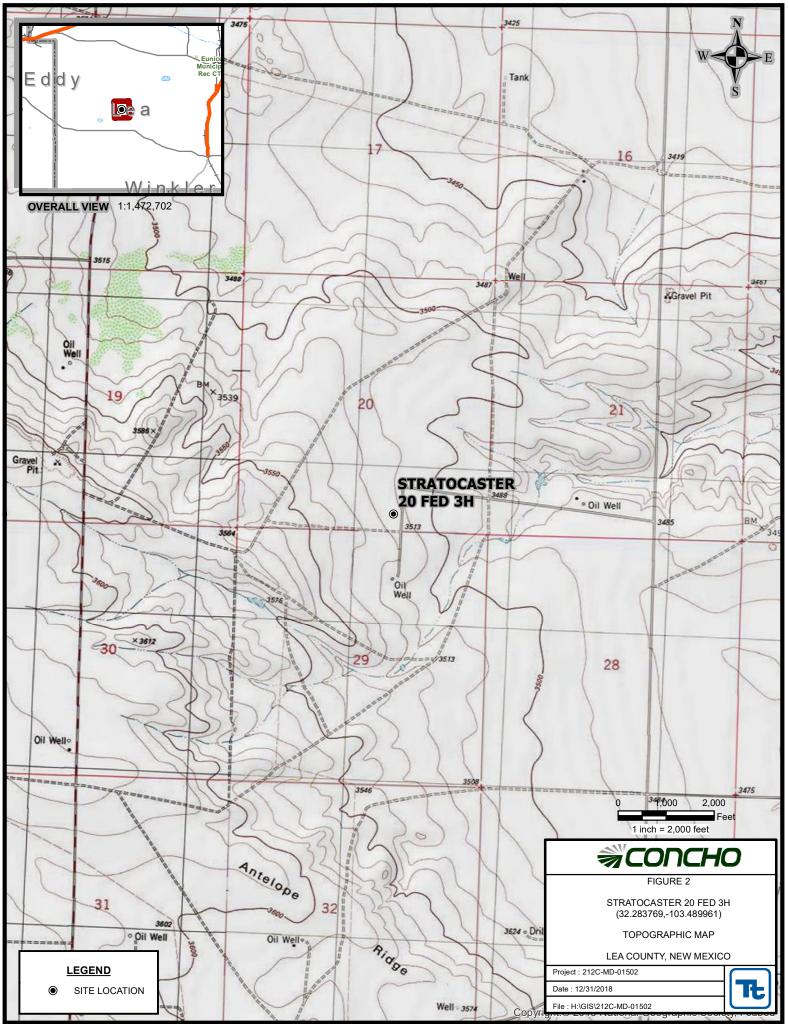
TETRA TECH

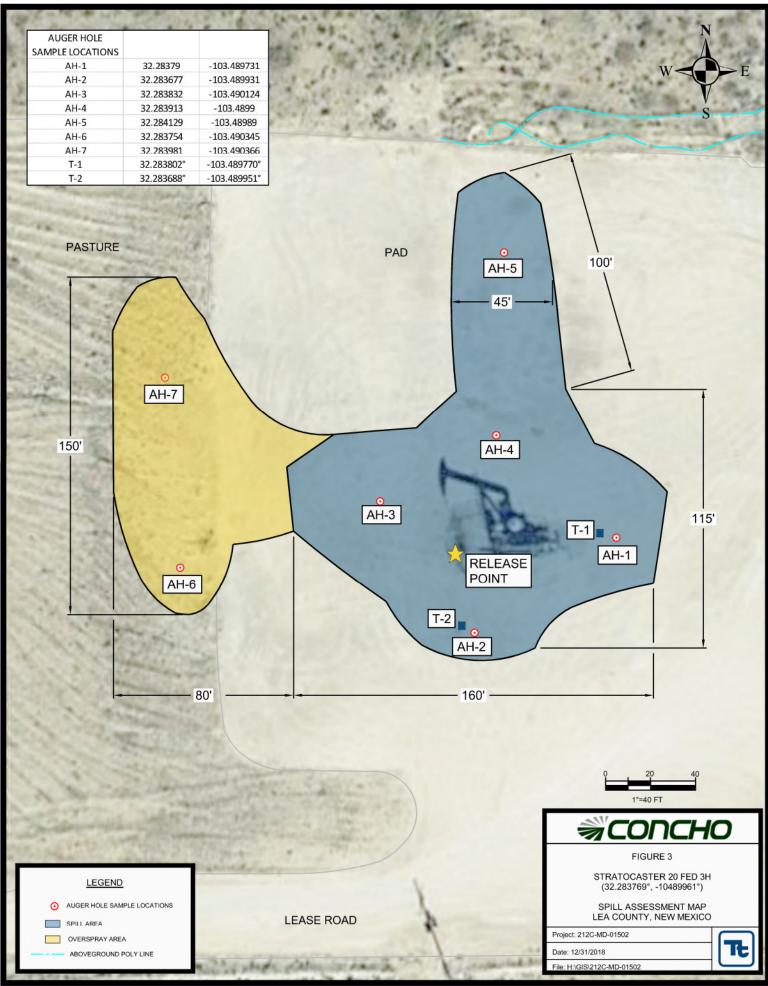
Clair Gonzales, P.G. Project Manager

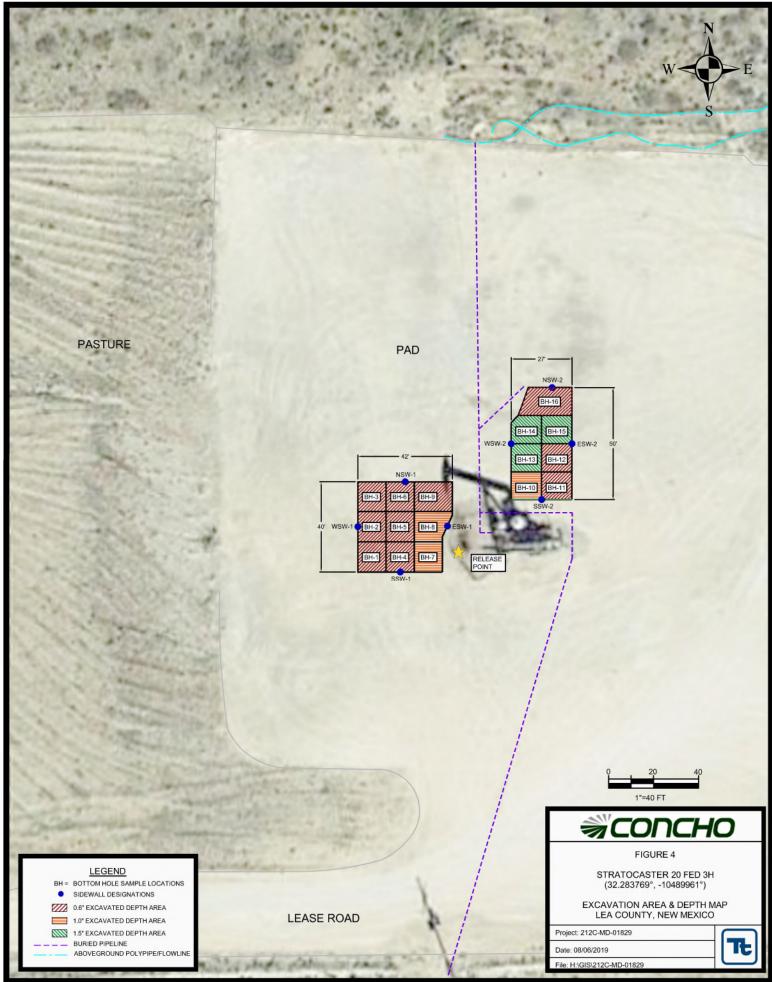
cc: Jim Amos – BLM lke Tavarez – COG Rebecca Haskell – COG Dakota Neel – COG Sheldon Hitchcock – COG Deann Grant - COG

# Figures









Drawn By: MISTI MORGAN Ref. dwg. PN# 212C-MD-01502

# **Tables**

Table 1
COG
Stratocaster 20 Fed #3H
Lea County, New Mexico

Sample ID	Sample	Sample	Soil S	Status			TPH (mg/kg	)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	11/20/2018	0-1	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	492
	"	1-1.5	Χ		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00200	0.00305	<0.00200	<0.00200	0.00305	897
T-1	6/27/2019	1	Х		-	-	-	-	-	-	-	-	-	-	96.0
	"	2	Χ		-	-	-	-	-	-	-	-	-	-	144
	"	3	Х		-	-	-	-	-	-	-	-	-	-	128
AH-2	11/20/2018	0-1	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	887
	"	1-1.5	Х		<14.9	<14.9	<14.9	<14.9	<14.9	<0.00202	0.00291	<0.00202	<0.00202	0.00291	991
T-2	6/27/2019	1	Х		-	-	-	-	-	-	-	-	-	-	64.0
	"	2	Х		-	-	-	-	-	-	-	-	-	-	176
AH-3	11/20/2018	0-6"	Х		778	3,170	3,948	32.5	3,980	0.0124	2.09	1.86	4.76	8.72	193
T-2	12/20/2018	0-1	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.00
	"	2	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	7.78
AH-4	11/20/2018	0-6"	Х		656	5,900	6,556	<75.0	6,560	0.0622	0.726	0.331	0.900	2.02	455
T-1	12/20/2018	0-1	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	68.2
	"	2	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00200	0.00236	<0.00200	0.0135	0.0159	33.1
AH-5	11/20/2018	0-1	Х		<15.0	28.3	28.3	<15.0	28.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	15.4
AH-6	11/20/2018	0-1	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.99
AH-7	11/20/2018	0-1	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.99

( - ) Not Analyzed

Proposed Excavation Depths

Table 2
COG
Stratocaster 20 Fed #3H
Lea County, New Mexico

Sample ID	Sample Date	Sample	'   KFK (##)	Soil	Status			TPH (mg/kg	)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID		Depth (ft)		In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
North Sidewall 1	6/28/2019	-	-		Х	<10.0	1,640	1,640	335	1,975	<0.050	<0.050	<0.050	<0.150	<0.300	400
	7/15/2019	-	-	Х		<10.0	298	298	52.9	351	<0.050	<0.050	<0.050	<0.150	<0.300	320
North Sidewall 2	6/28/2019	-	-		Х	<10.0	1,120	1,120	298	1,418	<0.050	<0.050	<0.050	<0.150	<0.300	464
	7/15/2019	-	-	Χ		<10.0	58.7	58.7	<10.0	58.7	<0.050	<0.050	<0.050	<0.150	<0.300	96
North Sidewall 3	7/15/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
East Sidewall 1	6/28/2019	-	-	Х		<10.0	339	339	75.6	415	<0.050	<0.050	<0.050	<0.150	<0.300	768
East Sidewall 2	6/28/2019	-	-	Х		<10.0	19.1	19.1	12.3	31.4	<0.050	<0.050	<0.050	<0.150	<0.300	112
East Sidewall 3	7/15/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
West Sidewall 1	6/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
West Sidewall 2	6/28/2019	-	-	Х		<10.0	41.9	41.9	10.7	52.6	<0.050	<0.050	<0.050	<0.150	<0.300	560
West Sidewall 3	7/15/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
South Sidewall 1	6/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
South Sidewall 2	6/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	720
Bottom Hole #1	6/28/2019	-	0.5	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Bottom Hole #2	6/28/2019	-	0.5	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
Bottom Hole #3	6/28/2019	-	0.5	Х		<10.0	40.6	40.6	13.3	53.9	<0.050	<0.050	<0.050	<0.150	<0.300	304
Bottom Hole #4	6/28/2019	-	0.5	Х		<10.0	104	104	30.7	135	<0.050	<0.050	<0.050	<0.150	<0.300	656
Bottom Hole #5	6/28/2019	-	0.5	Х		<10.0	391	391	178	569	<0.050	<0.050	<0.050	<0.150	<0.300	736
Bottom Hole #6	6/28/2019	-	0.5	Х		<10.0	255	255	45.5	301	<0.050	<0.050	<0.050	<0.150	<0.300	176

Table 2
COG
Stratocaster 20 Fed #3H
Lea County, New Mexico

Sample ID	Sample	Sample	BEB (ft)	Soil	Status			TPH (mg/kg	)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	DED (II)	In-Situ	Removed	GRO	DRO	GRO+DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bottom Hole #7	6/28/2019	-	0.5		Х	<10.0	325	325	248	573	<0.050	<0.050	< 0.050	<0.150	<0.300	1,120
	7/15/2019	-	1.0	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
Bottom Hole #8	6/28/2019	-	0.5	Х		<10.0	539	539	167	706	<0.050	<0.050	<0.050	<0.150	<0.300	1,620
	7/15/2019	-	1.0	Х		<10.0	42.7	42.7	13.4	56.1	<0.050	<0.050	<0.050	<0.150	<0.300	720
Bottom Hole #9	6/28/2019	-	0.5	Х		<10.0	372	372	80.5	453	<0.050	<0.050	<0.050	<0.150	<0.300	448
Bottom Hole #10	6/28/2019	-	0.5	Х		<10.0	10.4	10.4	<10.0	10.4	<0.050	<0.050	<0.050	<0.150	<0.300	976
	7/15/2019	-	1.0	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
Bottom Hole #11	6/28/2019	-	0.5	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
Bottom Hole #12	6/28/2019	-	0.5	Х		<10.0	30.2	30.2	<10.0	30.2	<0.050	<0.050	<0.050	<0.150	<0.300	304
Bottom Hole #13	6/28/2019	-	0.5		Х	<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,010
	7/15/2019	-	1.0	Х		<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
Bottom Hole #14	6/28/2019	-	0.5		Х	<10.0	2,030	2,030	447	2,477	<0.050	<0.050	<0.050	<0.150	<0.300	768
	7/15/2019	-	1.5	Х		<10.0	323	323	61.4	384	<0.050	<0.050	<0.050	<0.150	<0.300	240
Bottom Hole #15	6/28/2019	-	0.5		Х	<10.0	1,910	1,910	495	2,405	<0.050	<0.050	<0.050	<0.150	<0.300	592
	7/15/2019	-	1.5	Х		<10.0	320	320	31.1	351	<0.050	<0.050	<0.050	<0.150	<0.300	176
Bottom Hole #16	6/28/2019	-	0.5	Х		<10.0	901	901	263	1,164	<0.050	<0.050	<0.050	<0.150	<0.300	416

BEB Below Excavation Bottom

( - ) Not Analyzed

Excavation Depths

# **Photos**





View West - Area of AH-1



View Northwest – Area of AH-2





View East – Area of AH-3



View South - Area of AH-4





View West – Area of AH-5



View West - Area of AH-6





View West - Area of AH-7



View North - Excavated Area





View Northeast - Excavated Area



View North - Excavated Area

# 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

Responsible Party

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	NOY1830938217
District RP	1RP-5255
Facility ID	
Application ID	pOY1830938484

# **Release Notification**

### **Responsible Party**

OGRID

Contact Nam	ie			Contact 1	Contact Telephone					
Contact emai	il			Incident #	(assigned by OCD)	NOY1830938217				
Contact mail	ing address									
Latitude				of Release S						
			(NAD 83 in dec	imal degrees to 5 deci	mal places)					
Site Name				Site Type						
Date Release	Discovered			API# (if ap	plicable)					
Unit Letter	Section	Township	Range	Cou	nty	Federal minerals	5			
Crude Oil		(s) Released (Select all Volume Released	that apply and attach	Volume of		volumes provided below) ered (bbls)				
Produced	Water	Volume Released	d (bbls)		Volume Recovered (bbls)					
		Is the concentrate produced water >	on of dissolved cl	hloride in the	☐ Yes ☐ No					
Condensa	ite	Volume Released			Volume Recovered (bbls)					
Natural G		Volume Released	•		Volume Recovered (Mcf)					
Other (des	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)					
Cause of Rele	ease				1					

### State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice 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
☐ The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature: Deliver	Ojeant Date:
email:	Telephone:
OCD Only RECEI	VED
Received by: By Olivi	Date:

# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

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

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

### State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

### State of New Mexico Oil Conservation Division

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

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.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name:	Title:
Signature: 74 B	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

# Appendix B

# Water Well Data Average Depth to Groundwater (ft) COG - Stratocaster 20 Fed #3H

	22 S	South	3	33 East	t		22 \$	South	3	84 East			22 S	South	5	35 East	i
3	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
<del>,                                    </del>	8	9	10	11	12	7	8	9	10	11 30	12 <b>50</b>	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
9	20	21	22	23	391 24	19	20	21	22	23	24	19	20	21	22	23	24
80	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
	23 5	South	<u></u>	33 East		<u> </u>	23 !	South		84 East		<u> </u>	23.5	South		35 East	<u> </u>
	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
,	Ĭ	7	ľ	-	[ ]	ľ	200	1	ľ	<b> </b>		Ĭ	ľ	7	ľ	-	
475	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
'	<u>L</u>				325		225									$\perp$	
8	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
'	<del></del>					40		345	430	318	<del> </del>	40		4			
	20 <b>400</b>	21	22	23	24	19	20	21	22 <b>295</b>	23 <b>265</b>	24	19	20	21	22	23	24
	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
Ŭ	ا	400		225	225												
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
<u>'</u>	Ĺ						130										
	24 §	South	3	33 East	<del></del>	<u></u>	24 :	South	3	34 East			24 5	South	:	35 East	t.
	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
,	Ĺ					81		475	ľ							ľ	
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
,	1		24.6							40					300		
18	17	16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24	19	20 <b>9</b> 7	7 21	22	23	24
Ĭ	ا	<b> </b>		208	16.9	"		431		20			-	' -			-
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
,0	25	20	<u> </u>	20	20	00	20	20	21	20	2.5	55	20	20	21	20	20

34

35

32

36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- **90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

32

- 90 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- **121** Abandoned Waterwell (recently measured)



# 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 Sub-		Ω	Q	Ω							**	7-4
POD Number	Code		County	_	_	-		Tws	Rng	X	Y	DepthWellDepthW		/ater olumn
C 03620 POD1		CUB	LE		4				34E	641790	3569941		130	350
CP 00556 POD1		CP	LE	4	4	3	08	23S	34E	641762	3576206	497	255	242
<u>CP 00580</u>		CP	LE	3	4	3	23	23S	34E	646524	3572948*	220		
<u>CP 00606</u>		CP	LE		4	1	23	23S	34E	646613	3573854*	650	265	385
<u>CP 00618</u>		CP	LE	1	2	4	22	23S	34E	645713	3573539*	428	295	133
<u>CP 00637</u>		CP	LE	3	3	4	15	23S	34E	645293	3574541*	430	430	0
CP 00872 POD1		CP	LE	1	1	1	08	23S	34E	641225	3577504*	494	305	189
<u>CP 01075 POD1</u>		CP	LE		1	1	08	23S	34E	641278	3577525	430	20	410
CP 01120 POD1		CP	LE			3	14	23S	34E	646366	3574753	397	318	79
CP 01130 POD1		CP	LE	2	1	2	07	23S	34E	640662	3577558	27		
CP 01130 POD2		CP	LE	2	1	2	07	23S	34E	640674	3577549	27		
CP 01258 POD1		CP	LE	1	4	3	22	23S	34E	645015	3573221	25		
CP 01258 POD2		CP	LE	1	4	3	22	23S	34E	644941	3572883	65		
CP 01258 POD3		CP	LE	1	4	3	22	23S	34E	644938	3573097	25		
<u>CP 01502 POD1</u>		CP	LE	4	3	3	05	23S	34E	641342	3577635	648	200	448
											Average Depth	to Water:	246 fee	t

Minimum Depth:

Maximum Depth:

20 feet 430 feet

Record Count: 15

PLSS Search:

Township: 23S Range: 34E

\*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

11/14/18 10:37 AM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



USGS Home Contact USGS Search USGS

### **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	<b>~</b>	New Mexico	~	GO

### Click to hideNews Bulletins

- Please see news on new formats
- UPDATE, 11/9: As of November 8, the USGS has successfully restored all of the operational gages that stopped transmitting due to an issue with the satellite telemetry system that records and transmits data. The USGS will now focus on restoring other equipment that experienced the telemetry issues, including about 85 rapid deployment gages that are used periodically for emergency response. Read more
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

### Search Results -- 1 sites found

site\_no list =

321734103290001

### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 321734103290001 23S.34E.16.333312

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico Hydrologic Unit Code 13070007

Latitude 32°17'53", Longitude 103°28'59" NAD27

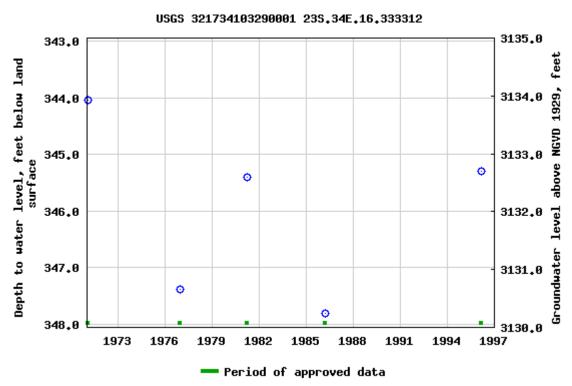
Land-surface elevation 3,478.00 feet above NGVD29

The depth of the well is 400 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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

**Title: Groundwater for New Mexico: Water Levels** 

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer

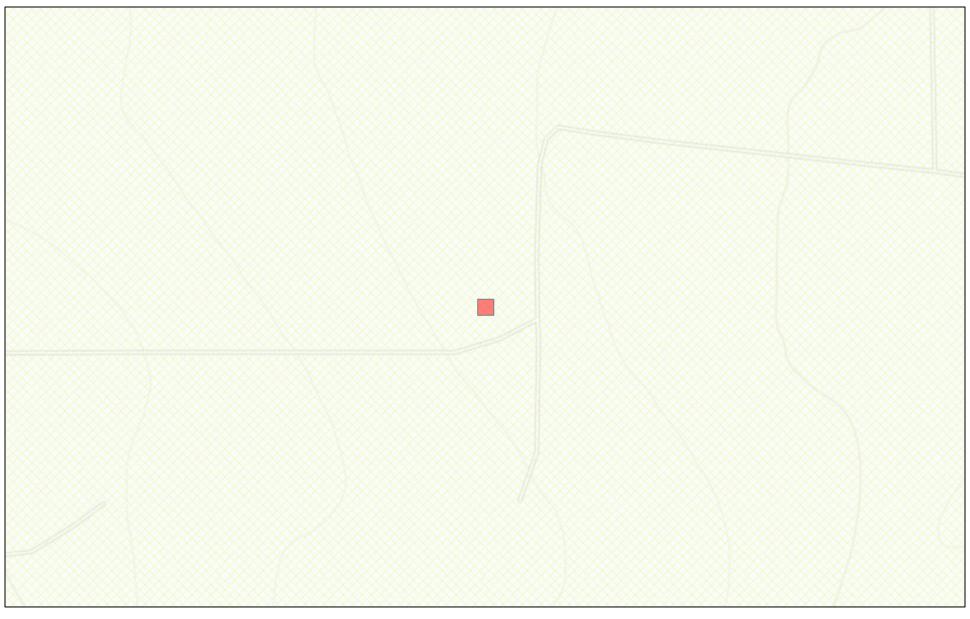
Page Last Modified: 2018-11-14 12:38:21 EST



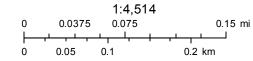
1.8 1.27 nadww01



# New Mexico NFHL Data



December 27, 2018



FEMA Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

# Appendix C



June 28, 2019

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: STRATOCASTER 20 FED 3

Enclosed are the results of analyses for samples received by the laboratory on 06/27/19 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/27/2019 Sampling Date: 06/27/2019

Reported: 06/28/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG - LEA CO NM

### Sample ID: TRENCH 1 ( 1' ) (H902224-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/28/2019	ND	400	100	400	3.92	
Sample ID: TRENCH 1 ( 2	2' ) (H902224	I-02)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/28/2019	ND	400	100	400	3.92	
	<i>, ,</i> ,,,,,,,,,,,	H-U3)							
	3' ) (H902224 <sub>mg,</sub>	-	Analyze	d By: AC					
		-	<b>Analyze</b> Analyzed	d By: AC  Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B	mg,	/kg	-	-	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride, SM4500CI-B  Analyte	mg, Result 128	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B  Analyte  Chloride  Sample ID: TRENCH 2 ( 1	mg, Result 128	Reporting Limit 16.0	Analyzed 06/28/2019	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B  Analyte  Chloride	mg, Result 128 L') (H902224	Reporting Limit 16.0	Analyzed 06/28/2019	Method Blank ND		•	•		Qualifier
Chloride, SM4500Cl-B  Analyte  Chloride  Sample ID: TRENCH 2 ( 1)  Chloride, SM4500Cl-B	mg, Result 128 L')(H902224 mg,	Reporting Limit 16.0  1-04)	Analyzed 06/28/2019 Analyze	Method Blank ND d By: AC	400	100	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/27/2019 Sampling Date: 06/27/2019

Reported: 06/28/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG - LEA CO NM

### Sample ID: TRENCH 2 ( 2' ) (H902224-05)

Chioride, SM4500CI-B	mg/	кg	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/28/2019	ND	400	100	400	3.92	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### **Notes and Definitions**

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

1

	Relinquished by:		Relinquished by:	Comm and orga	Relinquished by:			5 Trench	Trench	ていたつらか	2 Trenen	Trench	( LABUSE )	LAB#	+902224	Comments:	aboratory:	Invoice to: נסני - וגפ	Project Location: (county, state) ㄴ든유 스	Project Name: StrentochSter	Client Name: とらに	<b>4</b>	Analysis Request of C
	Date: Time:		Date: Time:	e/27/4	Date: Time:			2 (2')	2 (1)	1 (3)	(2)	(0')		SAMPLE IDENTIFICATION			CARDINAL	TAVAREZ	Co, nm	ASTER ZO FED 3		Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:		Received by:	L'harr	Received by:			•				6127/19	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #: Pending		Site Manager:		
~	Date: 1			UNSON 61	Date: 1			× ×	×	×	×	×	WATE SOIL HCL HNO <sub>3</sub> ICE		MATRIX PRESER		LOWNER MOEHEN		3		TIN CONZALES	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
	Time:		Time: <	27 19 16:45	Time:			~ ~		- 2		-	# CON	RED (	Y/N)		7					100 15 3	
(Circle) HAND DELIVERED I	1 C6#	1000	Sample Temperature		LAB USE REMARKS:								PAH 8 Total M	X1005 015M 270C letals Metals Volatile	(Ext to (GRO Ag As Ag As	- DRO - Ba Cd Cl Ba Cd C	ORO - Pb Se	Hg		!	ANAI (Circle or S		
FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day 24 hr	NUAKU	T STANDARD			×	*	*	×	×	RCI GC/MS GC/MS PCB's NORM PLM (A Chlorid	S Semi 8082 / Asbesto	. Vol. (	8270C/6	25				ANALYSIS REQUEST or Specify Method No.		Page
	RRP Report		17) 48 hr 72 hr										D. St. Coll. M. Coll. Co.	al Wat	er Che	emistry (	see atta	ached I	ist)		0.)	. 11	of



July 01, 2019

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: STRATOCASTER 20 FED 3

Enclosed are the results of analyses for samples received by the laboratory on 06/28/19 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: NORTH 1 SIDEWALL (H902238-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	QM-07
DRO >C10-C28*	1640	10.0	06/28/2019	ND	224	112	200	10.8	QM-07
EXT DRO >C28-C36	335	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	70.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	106	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: COG - LEA CO NM

#### Sample ID: NORTH 2 SIDEWALL (H902238-02)

RTFY 8021R

BIEX 8051B	mg/	кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	1120	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	298	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	80.6	% 41-142	?						

Surrogate: 1-Chlorooctane 80.6 % 41-142
Surrogate: 1-Chlorooctadecane 117 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: EAST 1 SIDEWALL (H902238-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	339	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	75.6	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	89.5 %	% 41-142	•						

Surrogate: 1-Chlorooctane 89.5 % 41-142
Surrogate: 1-Chlorooctadecane 106 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: EAST 2 SIDEWALL (H902238-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	19.1	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	12.3	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.0	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: WEST 1 SIDEWALL (H902238-05)

BTEX 8021B	mg/	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	19						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/01/2019	ND	416	104	400	3.77	QR-03
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	90.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.9	% 37.6-14	!7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: WEST 2 SIDEWALL (H902238-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	41.9	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	10.7	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	67.3 9	% 41-142	?						

Surrogate: 1-Chlorooctane 67.3 % 41-142
Surrogate: 1-Chlorooctadecane 70.9 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: SOUTH 1 SIDEWALL (H902238-07)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	19						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	86.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	!7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: SOUTH 2 SIDEWALL (H902238-08)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	75.0	% 41-142							
Surrogate: 1-Chlorooctadecane	78.7	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: BOTTOM HOLE # 1 ( 6" BEB ) (H902238-09)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	82.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: Sample Received By: 212C-MD-01818 - (10-28-18) Tamara Oldaker

Project Location: COG - LEA CO NM

## Sample ID: BOTTOM HOLE # 2 ( 6" BEB ) (H902238-10)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	87.4	% 41-142							
Surrogate: 1-Chlorooctadecane	94.0	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 3 ( 6" BEB ) (H902238-11)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	40.6	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	13.3	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	?						

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01818 - (10-28-18) Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: BOTTOM HOLE # 4 ( 6" BEB ) (H902238-12)

BTEX 8021B	` mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	104	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	30.7	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-142	?						

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

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



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

## Sample ID: BOTTOM HOLE # 5 ( 6" BEB ) (H902238-13)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	391	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	178	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	89.4	% 41-142	?						

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

## Sample ID: BOTTOM HOLE # 6 ( 6" BEB ) (H902238-14)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	255	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	45.5	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.8	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: BOTTOM HOLE # 7 ( 6" BEB ) (H902238-15)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	219	110	200	6.57	
DRO >C10-C28*	325	10.0	06/28/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	248	10.0	06/28/2019	ND					
Surrogate: 1-Chlorooctane	86.4 %	% 41-142	?						

Surrogate: 1-Chlorooctane 86.4 % 41-142
Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01818 - (10-28-18) Tamara Oldaker

Project Location: COG - LEA CO NM

#### Sample ID: BOTTOM HOLE # 8 ( 6" BEB ) (H902238-16)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	219	110	200	6.57	
DRO >C10-C28*	539	10.0	06/29/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	167	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	75.7	% 41-142	!						

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01818 - (10-28-18) Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 9 ( 6" BEB ) (H902238-17)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	19						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	219	110	200	6.57	
DRO >C10-C28*	372	10.0	06/29/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	80.5	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	77.0	% 41-142	?						
Surrogate: 1-Chloroctadecane	00.0	0/, 37614	17						

90.9 % Surrogate: 1-Chlorooctadecane 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 10 ( 6" BEB ) (H902238-18)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	219	110	200	6.57	
DRO >C10-C28*	10.4	10.0	06/29/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	76.4 9	% 41-142							

Surrogate: 1-Chlorooctane 76.4 % 41-142
Surrogate: 1-Chlorooctadecane 81.4 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 11 ( 6" BEB ) (H902238-19)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	219	110	200	6.57	
DRO >C10-C28*	<10.0	10.0	06/29/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	82.4	% 41-142	?						
Commenter 1 Chlores and John	05.6	0/ 27/14	17						

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH CLAIR GONZALES** 

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01818 - (10-28-18) Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 12 ( 6" BEB ) (H902238-20)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.93	96.4	2.00	0.424	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.80	90.0	2.00	0.353	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.44	90.6	6.00	0.308	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	219	110	200	6.57	
DRO >C10-C28*	30.2	10.0	06/29/2019	ND	224	112	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	69.3	% 41-142	!						

Surrogate: 1-Chlorooctadecane 72.7 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 13 ( 6" BEB ) (H902238-21)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.88	94.1	2.00	2.15	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.5	2.00	1.37	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.81	90.3	2.00	1.17	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.43	90.4	6.00	1.68	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	196	98.1	200	8.76	
DRO >C10-C28*	<10.0	10.0	06/29/2019	ND	200	99.8	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	,						
Surrogate: 1-Chlorooctadecane	90.8	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 14 ( 6" BEB ) (H902238-22)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.88	94.1	2.00	2.15	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.5	2.00	1.37	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.81	90.3	2.00	1.17	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.43	90.4	6.00	1.68	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	5 73.3-12	9						
Chloride, SM4500Cl-B	mg/l	кg	Analyze	d By: AC					

Surrogate. 4-Bromojtuorovenzene (F1D	103	/0 /3.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	196	98.1	200	8.76	
DRO >C10-C28*	2030	10.0	06/29/2019	ND	200	99.8	200	7.78	
EXT DRO >C28-C36	447	10.0	06/29/2019	ND					

Surrogate: 1-Chlorooctane 97.4 % 41-142
Surrogate: 1-Chlorooctadecane 166 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

## Sample ID: BOTTOM HOLE # 15 ( 6" BEB ) (H902238-23)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	< 0.050	0.050	06/29/2019	ND	1.88	94.1	2.00	2.15	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.5	2.00	1.37	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.81	90.3	2.00	1.17	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.43	90.4	6.00	1.68	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					

mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
592	16.0	07/01/2019	ND	416	104	400	3.77	
mg,	/kg	Analyze	d By: MS					S-04
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/29/2019	ND	196	98.1	200	8.76	
1910	10.0	06/29/2019	ND	200	99.8	200	7.78	
495	10.0	06/29/2019	ND					
	Result 592 mg, Result <10.0 1910	592 16.0  mg/kg  Result Reporting Limit  <10.0 10.0  1910 10.0	Result         Reporting Limit         Analyzed           592         16.0         07/01/2019           mg/kg         Analyze           Result         Reporting Limit         Analyzed           <10.0	Result         Reporting Limit         Analyzed         Method Blank           592         16.0         07/01/2019         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           592         16.0         07/01/2019         ND         416           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           592         16.0         07/01/2019         ND         416         104           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           592         16.0         07/01/2019         ND         416         104         400           Mesult         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           592         16.0         07/01/2019         ND         416         104         400         3.77           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane 87.9 % 41-142 Surrogate: 1-Chlorooctadecane 159 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH CLAIR GONZALES

901 WEST WALL STREET , STE  $100\,$ 

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/28/2019 Sampling Date: 06/28/2019

Reported: 07/01/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01818 - (10-28-18) Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 16 ( 6" BEB ) (H902238-24)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2019	ND	1.88	94.1	2.00	2.15	
Toluene*	<0.050	0.050	06/29/2019	ND	1.93	96.5	2.00	1.37	
Ethylbenzene*	<0.050	0.050	06/29/2019	ND	1.81	90.3	2.00	1.17	
Total Xylenes*	<0.150	0.150	06/29/2019	ND	5.43	90.4	6.00	1.68	
Total BTEX	<0.300	0.300	06/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2019	ND	196	98.1	200	8.76	
DRO >C10-C28*	901	10.0	06/29/2019	ND	200	99.8	200	7.78	
EXT DRO >C28-C36	263	10.0	06/29/2019	ND					
Surrogate: 1-Chlorooctane	93.1 9	% 41-142	?						

Surrogate: 1-Chlorooctane 93.1 % 41-142
Surrogate: 1-Chlorooctadecane 132 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Analysis Request of Chain of Custody Record Page of.

				_	_	_			_	_	_	_	_		_										
		Relinquished by:	neiliquistied by.	mus	V	10	9	8		6	5	4	W	2	2	( LAB USE )	LAB#	ومردما	Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	급
			_	are one	2	Bottom Hole#2	Bottom Hole	SON+H 2	South 1	WEST Z	WEST -	EAST 2	EAST -	NOETH -	NORTH I						CA I IKE	LE P	Stratoraste	500	
		Date: Time:	Date: Time:		Time:	( 6 BEB)	ole #1 ( 611 BEB)	SIDEWALL	SIDEWALL	SIDEMALL	SIDEWALL	SIDEWALL	SIDEWALL	2 SIDEWALL	Sidewall		SAMPLE IDENTIFICATION			CARDINAL	- TPVAREZ	6 2 2	ster 20 Fed 34 (10.28.18)		Tetra Tech, Inc.
ORIGINAL COPY		Received by:	Heceived by:	Manu	Received by:	Ø								7	6/28/19	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
OPY				and Ma		- - -	*	⊀.	*	×	×	メ	×	*	⊀.	TIME WATE SOIL	R	NG MATRIX		このいいき		12c-ma-0		でしていた	9
		Date: Time:	Dgzé: Time:	at all 61	Date: Time:	*	*	×	×		×	×	メ	X	Υ,	HCL HNO <sub>3</sub> ICE		RIX PRESERVATIVE METHOD		Z WOEHE		18181		いりいてることと	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
		ie:	<u>е</u> .	138/19 15:	Не:	·	7	7	1	1	1	1	-	-	-	None # CONT	AINE			ins					00
0			(0	05		7	E	ζ	7	7	7	7	2	7	18.0	FILTER		13407							
(Circle) HAND DELIVERED	4	4	Sample Temperature	_	5		*	*	×	メ	X	×	メ	×		BTEX 8	1005	(Ext to							
HAND	CU	7	Tempe	ONLY	LAB USE	X	メ	7	×	×	×	×	×	X	×	TPH 80 PAH 82	Action (III)	GRO -	DRO - C	DRO - N	IRO)				
DELIM			ature		š											Total Me		557			17/		_ 7		
F				1 5	REV											TCLP Vo	olatiles	3			.5		e		
FEDEX	Spe	J L	NSNE.	L	REMARKS:											TCLP Se							- peci		
X UPS	ecial F	Husn Charges Authorized	S X	OTANDARD	) !! 	_	-	-		_		Н				GC/MS S			INTERNATION CO.	5			-		
	Report	arges	Same Day	Z												PCB's 8			_, 00,010					111	
Tracking #:	Limit	Autho	Day	ź	5			-	$\dashv$			-				NORM PLM (As	besto	s)						UES	
ig #: _	's or T	orizec	(P4 hr	)		メ	Х	X	X	Х	X	×	メ	X	×	Chloride									
	Special Report Limits or TRRP Report	ين	(=													Chloride General		ılfate r Cher	TDS nistry (se	e attar	hed lis	t)	o.		
	Repc		48 hr													Anion/Ca						s. <b>4</b> 6			
	Ã		72 hr					$\dashv$	=						-										
			-8		ı																				
ľ																Hold								- 1	

Tetra Tech, Inc.    Semantic S	Trainiquisired by.	Relinquished by:	Relinquished by:	Commendading	Relinquished by:	F. 1	Bothom Hole	18 Roton Hoic #10	17 Bottom their #9	16 Bottom Holc #8	15 Bottom Hole #7	14 Bottom Hole #6	15 Bottom Hole # 5	12 Bottom Hole # 4	11 Bottom Hole # 3		1402208	355 000	Comments:	Receiving Laboratory: ころでいるし	1- IKE	Project Location: LEPA CO; NVM	Project Name: STRATGCA STER	Client Name: しょん		Alialysis nequest of Cliail of
LING  SOUND TALES  ANALYSIS REQUEST  CLANG CONTAINERS  Fav (62) 888-984-9  Fav (62) 88				28/15	Date:	20	2	3		~							MPLE IDENTIFICATION				AREZ		FED 3H (10.78,		9 1	custody Record
WALYSIS REQUEST   Contains 7000   Walnow Street, Statuto   Contains   Conta	Heceived by:		Received by:	Sharing S	Received by:	*					_				6/28/19		YEAR: 2019	SAMPLING		Sampler Signature:						
HNO3	Da		Da Da	Office of the second	Г	\$	Х	X	×	*	×	メ	メ	*	×	WATER SOIL		MATRIX		CONNER					901W Wa Midland Tel (4: Fax (4:	
ANALYSIS REQUEST    Circle or Specify Method No.			-			\$ .	*	X	Х	К	X	×	Х	×	Х	HNO <sub>3</sub> ICE		PRESERVATIVE METHOD						LES	III Street, Ste 100 4,Texas 79705 32) 682-4559 32) 682-3946	
ANALYSIS REQUEST  ONLY  Brewarks:  General Water Chemistry (see attached list)  Anion/Cation Balance			1 10.00	S. S.	-		- ·	2	- Z	- 2	-		- Z	- 2	_					)						
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  TCLP Volatiles  TCLP Volatiles  TCLP Semi Volatiles  TCLP Semi Volatiles  RCI  GC/MS Vol. 8260B / 624  GC/MS Semi. Vol. 8270C/625  PCB's 8082 / 608  NORM  PLM (Asbestos)  Ye or Specify Method  NORM  PLM (Asbestos)  Ye or Specify Method  NORM  PLM (Asbestos)  Chloride  Chloride  General Water Chemistry (see attached list)  Anion/Cation Balance	4	Sample		<del>\</del> = E	×	+	_	-		_					×	BTEX 802 TPH TX10	1B 005 (	BTEX	C35)							
TCLP Semi Volatiles  RCI  GC/MS Vol. 8260B / 624  GC/MS Semi. Vol. 8270C/625  PCB's 8082 / 608  NORM  PLM (Asbestos)  X X X X X X X X X X X X X X X Chloride  Chloride Sulfate TDS  General Water Chemistry (see attached list)  Anion/Cation Balance	المن المن المن المن المن المن المن المن	Temperature 497		AB USE	7	5 7	*	X	*	*	×	×	X	×		PAH 8270 Total Metal	C Is Ag	g As Ba	Cd Cr P	b Se H	g					
REQUEST  AND ARD  AND		☐ Rush C	× RUSH:	ST	DEMARKS.											TCLP Sem RCI	i Vol	latiles	624				_ g			
Chloride	I Report Limits	0		ANDARD												PCB's 808 NORM PLM (Asbe	2/6	808	70C/625				₹	ᇛ		Pa
	or TRRP Report	5	48 hr			×		×	κ .	×	*	×	×	*		Chloride General W	ater	Chem	istry (se	e attac	hed list	t)				

	Relinquished by:	Relinquished by:	Camm M			ay Bottom	8 Bettom	23 Betom	2) Bollom	( LAB USE )	1702238 # BAL		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name: STRATO	Client Name: こらん	7	Analysis Request of
	Date: Time:	Date: Time:	10-lin) 6/28/14 1505			Holc #16 (6" BEB)	Hoic #15 ( 6" BEB)	HOIL # 14 ( 6" BEB)	Hole # 13 ( 6" BEB)		SAMPLE IDENTIFICATION			CHROINAL	INC TAVAREZ	WW 00 t	STRATO CASTER 20 FED 3H (10.25.15)		Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:	Received by:	Received by:			4			0/25/10	DATE	YEAR: 2019	SAMPLING	-	Sampler Signature:		Project #: 212c-		Site Manager: こしている		
	Date: Time:	Date: Time;	Date: Time: Albertal Albertal Date: Time:			× ×	× ×	× ~	×	WATER SOIL HCL HNO <sub>3</sub> ICE		MATRIX PRESERVATIVE METHOD		CONNER MOEHRIN		81810 - 0 m		TIR CONTALES	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3846	
(0:	ne:		78/19 15:05			- 7 ×	- 2 ×	- 7 ×	7	# CONTA	D (Y	RS /N)	X 8260B	5					00	
(Circle) HAND DELIVERED (	4.3e	Sample Temperature × × × × × × × × × × × × × × × × × × ×	ONLY REMARKS:			×	*	×	×	TPH TX1 TPH 801 PAH 827 Total Meta TCLP Meta TCLP Vol TCLP Ser	5M ( 0C als A tals A atiles	GRO - g As B Ag As E	DRO - C	Pb Se F	łg			ANA		
FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	STANDARD			X	×	*	×	RCI GC/MS V GC/MS S PCB's 80 NORM PLM (Asb Chloride	emi. 082 / 0 estos	Vol. 82 608		5			opecity well on No.	QUEST		Page
	RP Report	72 hr								General \ Anion/Ca	Wate	r Cher	mistry (se	e atta	ched lis	st)				3 of 3



July 17, 2019

MIKE CARMONA
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: STRATOCASTER 20 FED 3

Enclosed are the results of analyses for samples received by the laboratory on 07/16/19 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019 Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: NORTH # 1 SIDEWALL (H902427-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2019	ND	2.03	101	2.00	0.449	
Toluene*	<0.050	0.050	07/17/2019	ND	2.00	100	2.00	2.41	
Ethylbenzene*	<0.050	0.050	07/17/2019	ND	1.90	95.1	2.00	1.51	
Total Xylenes*	<0.150	0.150	07/17/2019	ND	5.82	97.0	6.00	0.454	
Total BTEX	<0.300	0.300	07/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	298	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	52.9	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	75.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.4	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: NORTH # 2 SIDEWALL (H902427-02)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	GC-NC
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	58.7	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	77.3	% 41-142	?						
Commenter 1 Chlores at all and	05.7	0/ 27/14	17						

Surrogate: 1-Chlorooctadecane 85.7 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01821 Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: NORTH # 3 SIDEWALL (H902427-03)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	< 0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	< 0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	80.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.2	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 86.2 %

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01821 Tamara Oldaker

Analyzed By: BE

Project Location: COG - LEA CO NM

### Sample ID: EAST # 3 SIDEWALL (H902427-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	< 0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	< 0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	< 0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 73.3-12	19						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	67.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	73.1	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane 73.1 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: WEST # 3 SIDEWALL (H902427-05)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	73.9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	80.7	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01821 Tamara Oldaker

Project Location: COG - LEA CO NM

## Sample ID: BOTTOM HOLE # 7 ( 1' BEB ) (H902427-06)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>432</b> 16.0		07/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	73.8 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81 3 9	% 37 6-14	17						

81.3 % Surrogate: 1-Chlorooctadecane 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



TETRA TECH MIKE CARMONA

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact
Project Number: 212C-MD-01821 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 8 ( 1' BEB ) (H902427-07)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	42.7	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	13.4	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	68.8	% 41-142	!						

Surrogate: 1-Chlorooctadecane 85.0 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01821 Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 10 ( 1' BEB ) (H902427-08)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	65.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.3	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET , STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01821 Tamara Oldaker

Project Location: COG - LEA CO NM

# Sample ID: BOTTOM HOLE # 13 ( 1' BEB ) (H902427-09)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	< 0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	218	109	200	2.06	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	61.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	68.9	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 68.9 %

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 212C-MD-01821 Tamara Oldaker

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 14 ( 1.5' BEB ) (H902427-10)

DTEV 0004 D	` .		<b>,</b> ,							
BTEX 8021B	mg/	кд	Analyze	d By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.00 2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTEX	<0.300	0.300	07/16/2019	ND						
Surrogate: 4-Bromofluorobenzene (PID	106 %	73.3-12	9							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC						
Analyte	Result Reporting Lim		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/16/2019	ND	400	100	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	199	99.4	200	3.66		
DRO >C10-C28*	323	10.0	07/16/2019	ND	218	109	200	2.06		
EXT DRO >C28-C36	61.4	10.0	07/16/2019	ND						
Surrogate: 1-Chlorooctane	73.6	% 41-142	!							

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



**TETRA TECH** MIKE CARMONA

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 07/16/2019 Sampling Date: 07/15/2019

Reported: 07/17/2019 Sampling Type: Soil

Project Name: STRATOCASTER 20 FED 3 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 212C-MD-01821

Project Location: COG - LEA CO NM

### Sample ID: BOTTOM HOLE # 15 ( 1.5' BEB ) (H902427-11)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTEX	<0.300	0.300	07/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2019	ND	190	95.1	200	0.351	
DRO >C10-C28*	320	10.0	07/16/2019	ND	189	94.6	200	4.27	
EXT DRO >C28-C36	31.1	10.0	07/16/2019	ND					
Surrogate: 1-Chlorooctane	76.2	% 41-142							

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after competent of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



### **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.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

		Relinguished by:	Relinquished by:	Commenso	Relinquished by:	10 Botom Holis	3 Botom Hoka	8 Robon Hole #	7 Bothin Hor #	6 Botom Hoice	5 West#	4 EAST #	W North	2 North # 2	North #	( LAB USE )	LAB#	H902427	Collination.	Receiving Laboratory: C みと	Invoice to: LOC - IK	Project Location: (county, state) LEA	Project Name: Stratocastar	Client Name: くのら	4	Analysis Request of
	Care, IIIIG.	Dete: Timo:	Oate: Time:	Sulla later	Date: Time:	blust 14 (13/18ES)	HOLD (1, BEB)	oct 10 (1, BES)	8	HoLL 47 (1'BEB)	3 Sidemail	3 Sidemail	#3 Sidewall	#2 Sidemail	+1 Siderall		SAMPLE IDENTIFICATION			edinal	LE TAVAREL	eoram	icastar 20 fed 3		Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	neceived by.		Received by:	Jamara &	Received by:	*									7/15/15	DATE	YEAR: 2019	SAMPLING		Sampler Signature:		Project #: 2122~~~		Site Manager:		
	Date: Time:		Date: Time:	Make 7-16-19	Date: Time:	*	×	X	X	X X	X	×	х Х	X	×	WATER SOIL HCL HNO <sub>3</sub> ICE None	R	MATRIX PRESERVATIVE METHOD		ONNER MOEHEING		128,00 an		WILE CARMONA	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
(Circle)	V	#	Sample	8:40		~ そ メ	7 7	- 2	٠ ٢	7	· Σ	7	~ ~ X	- Z ×	ζ ×	# CONT. FILTERE BTEX 80 TPH TX	D (Y 021B 1005	RS /N) BTE: (Ext to								
(Circle) HAND/DELIVERED FEDEX UPS Tracking #:	A.1 c Special Report Limits or TRRP Report	# 97	Sample Temperature   XRUSH: Same Day (24 h) 48 hr 72 hr	TANDARD	AR IISE REMARKS:	ζ ζ	*	*	X X	×	×	×	×	×	×	TPH 1A TPH 801 PAH 827 Total Met TCLP Me TCLP Vo TCLP Se: RCI GC/MS V GC/MS S PCB's 80 NORM PLM (Ast Chloride Chloride General V Anion/Ca	5M ( 70C tals Agetals	GRO - g As Bag As B is selected at the selecte	DRO - Co a Cd Cr F ia Cd Cr 624 270C/625 TDS nistry (se	Pb Se H	g		(Circle or Specify Method No.)	ANALYSIS REQUEST		Page 1 of
					_											Hold										7

Analysis Request of Chain of Custody Record

		Relinquished by:		Relinquished by:	Relinquished by:					11 Battom +	( LAB USE )	LAB#	H962427	-	Comments:	COC , KE	CE#	Stizerouster	Project Name:	Client Name:
		Date: Time:	Date. Hille:	12,	, Date: Time:					Holc# 15 (1-5' BEB)		SAMPLE IDENTIFICATION			CARDINAL	SOM TAVAREZ	C01511	ster 20 feb 3		Tetra Tech, Inc.
ORIGINAL COPY		Received by: Date: Time:	Heceived by: Date: Time:	mara Elda	Received by:					×	DATE  TIME  WATEF SOIL  HCL HNO <sub>3</sub> ICE None	AINE			Sampler Signature: לט מעבוצ מעספּאבימל		Project #: 2125mp-01818		Site Manager: MIKE CARMONA	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
(Circle) HANO DELIVERED FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	#47 Rush Charges Authorized	Sample Temperature X RUSH: Same Day (24 h)r 48 hr 72 hr	ONLY STANDARD						×	BTEX 80 TPH TX1 TPH 801 PAH 827 Fotal Met FCLP Me FCLP Vol FCLP Ser RCI GC/MS Vol GC/MS So FCB's 80 HORM FLM (Asb Chloride General Vol Inion/Cal	005 ( 00C on one of one	BTEX Ext to C GRO - [ As Ba g As Ba atiles 60B / 66 fol. 827 08	Cd Cr Pl Cd Cr Fl Cd Cr F	b Se Ηφ	9		(Circle of Specify Method No.)	ANALYSIS RE	

מממ