	SITE INFORMATION											
	Re	port Type	e: Work Pla	n 2l	RP-3802							
General Site Info		71										
Site:		Showstoppe	r 7 Federal Com	#001H								
Company:		COG Operati										
Section, Townsh	nip and Range		Sec. 7	T 25S	R 29E							
Lease Number:		API No. 30-0	15-36559									
County:		Eddy										
Facility GPS:			32.1511154° N		104.0167618° W							
Release GPS:			32.15251° N		104.01238° W							
Surface Owner:		Federal										
Directions:					eline Road Number 1, travel northeast on Pipeline							
					urn north(left) onto unnamed lease road. Travel " stay left. The road will curve northwest and							
					named lease road will "Y" again. Turn left and							
follow the lease road north for 1.95 miles and turn West (left). Travel west on this unnamed												
					at the "Y" for another 0.70 miles and area of							
		rupture flowline	e will be on the sout	h side (left) d	of the lease road.							
Release Data:												
Date Released: 7/16/2016												
Type Release:		Produced Wa	nter									
Source of Contamination: Damaged Flowline												
Fluid Released: 20 bbls												
Fluids Recovered		0 bbls										
Official Commun	nication:											
Name:	Robert McNeil				lke Tavarez							
Company:	COG Operating, LL	С			Tetra Tech							
Address:	One Concho Cente	r			4000 N. Big Spring							
	600 W. Illinois Ave.				Ste 401							
City:	Midland Texas, 797	01			Midland, Texas							
Phone number:	(432) 686-3023	<u>-</u>			(432) 687-8110							
Fax:	(432) 684-7137				(102) 001 0110							
Email:	rmcneil@conchor	esources com			Ike.Tavarez@tetratech.com							
Ranking Criteria	THICHCIT® COLICION	C30drCC3.COIII			inc. i avaicz s tetrateon.com							
Ranking Criteria												
Depth to Groundw	vater:		Ranking Score		Site Data							
<50 ft			20									
50-99 ft			10									
>100 ft.			0									
WellHead Protection	on.		Ranking Score		Site Data							
	000 ft., Private <200 ft		20		Ono Data							
	000 ft., Private >200 ft		0		0							
Surface Body of W	Vater:		Ranking Score		Site Data							
<200 ft. 200 ft - 1,000 ft.			20 10									
>1,000 ft.			0		0							
Tot	al Ranking Score:		10									
		Accepta	ble Soil RRAL (n	ng/kg)								
		Benzene	Total BTEX	TPH								
		10	50	1,000								



October 31, 2016

Heather Patterson Environmental Engineer Specialist Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

Re: Work Plan for the COG Operating LLC., Showstopper 7 Federal Com #001H, Unit A, Section 7, Township 25 South, Range 29 East, Eddy County, New Mexico. 2RP-3802

Ms. Patterson:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC., (COG) to assess a spill from Showstopper 7 Federal Com #001H, Unit A, Section 7, Township 25 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.15251°, W 104.01238°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on July 16, 2016, and released approximately twenty (20) barrels of produced water due to a ruptured poly flowline. None of the fluids were recovered. The initial C-141 form lists the site as being in Section 7, however the release occurred in the pasture in Section 5, and measured approximately 50' x 130'. The initial C-141 form is included in Appendix A.

Groundwater

According to the NMOCD groundwater map, the average depth to groundwater in this area is between 50' to 75' below surface. No water wells were listed in Section 7 or 5. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. 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 depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment and Analytical Results

On August 15, 2016, Tetra Tech personnel were onsite to evaluate and sample the release area. Three (3) auger holes (AH-1, AH-2, and AH-3) were installed to depths of 3.5-4.5' below surface. Additionally, one background auger hole (AH-4 Background) was installed to 2.0-2.5' below surface to evaluate the native soils. Deeper samples were not collected due to dense caliche formations in the area. Selected samples were analyzed 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 D. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the areas sampled showed total TPH or BTEX concentrations above the laboratory reporting limits. However, the areas of auger holes (AH-1, AH-2 and AH-3) showed elevated chloride concentrations in the shallow soils with chloride highs of 688 mg/kg at 0-1', 22,800 mg/kg at 0-1', and 16,400 mg/kg at 2-2.5' below surface, respectively. These areas were not vertically defined. The background auger hole (AH-4 Background) did not show any significant chloride concentrations in the native soils.

Based on the laboratory data, Tetra Tech personnel returned to the site on October 12, 2016, to install three (3) boreholes (BH-1, BH-2, and BH-3) to depths of 20-25' below surface in order to vertically define the chloride impacts. Selected samples were analyzed for chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The borehole drilling logs are included in Appendix C. The sampling results are summarized in Table 1. The borehole locations are shown on Figure 3.

Referring to Table 1, the area of BH-1 (AH-1) showed a chloride spike of 1,100 mg/kg at 6-7', which then declined with depth to 48.0 mg/kg at 14-15' below surface. The chloride concentrations in the area of BH-2 (AH-2) also declined with depth from 11,700 mg/kg at 4-5' to 336 mg/kg at 20-25'; however there was a chloride spike of 4,560 mg/kg at 14-15' below surface. The area of BH-3 (AH-3) also showed chloride concentrations that declined with depth from 3,320 mg/kg at 6-7' to 64.0 mg/kg at 19-20' below surface. The sample at the interval of 6-7' at borehole (BH-2) was lost during sampling. However, the chloride concentrations appear to be similar and correlate to those found at borehole (BH-3).



Work Plan

Based on the results, COG proposes to remove impacted material as highlighted (green) in Table 1 and shown on Figure 4. The areas of boreholes (BH-2 and BH-3) will be excavated to approximately 6.0' to 7.0' below surface to remove the chloride impacted soils. The area of borehole (BH-1) did not show a significant chloride impact to the subsurface soils and the concentrations detected do not appear to be an environmental concern. The excavated areas will be backfilled with clean material to surface grade. Once completed, the excavated material will be transported offsite for proper disposal. The area will then be reseeded in June 2017 to coincide with the rainy season in southeastern New Mexico.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, Tetra Tech will excavate the impacted soils to the maximum extent practicable

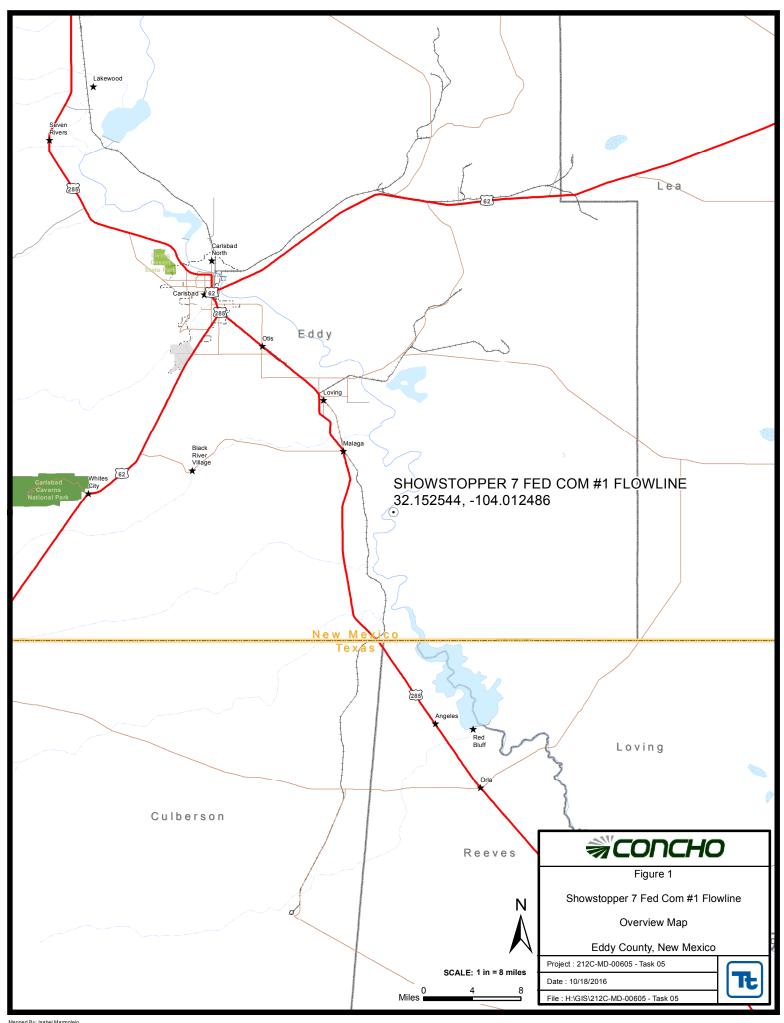
Upon completion, a final report will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

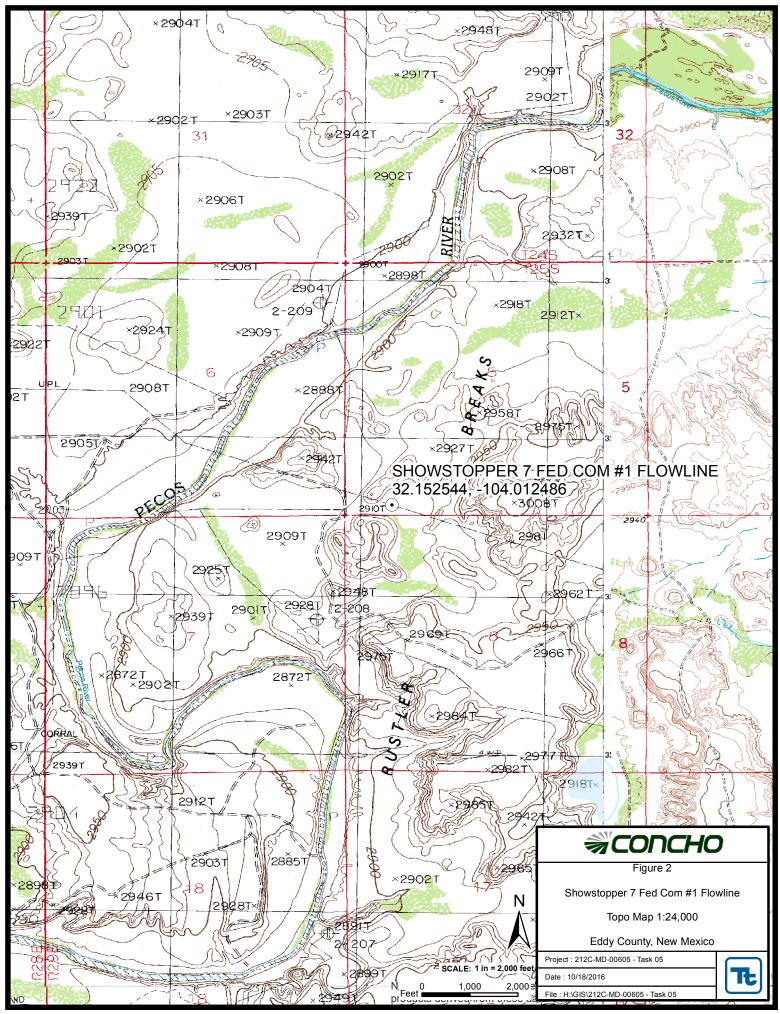
Respectfully submitted, TETRA TECH

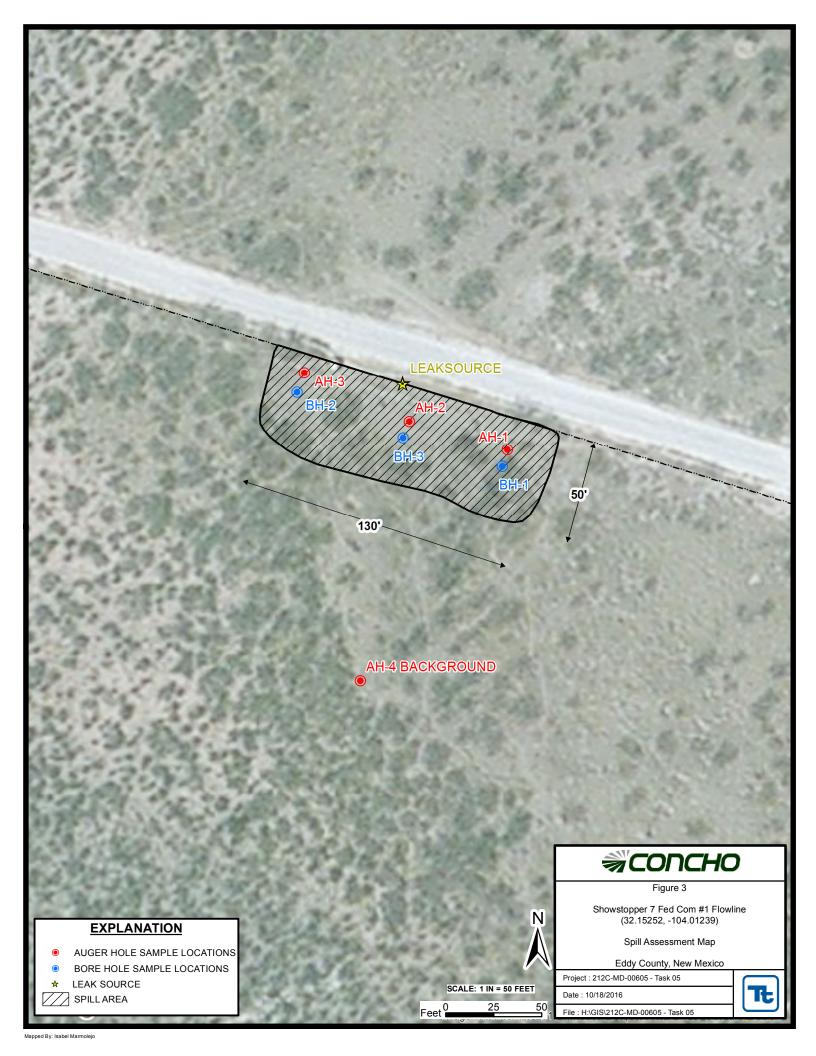
Clair Gonzales, Geologist I

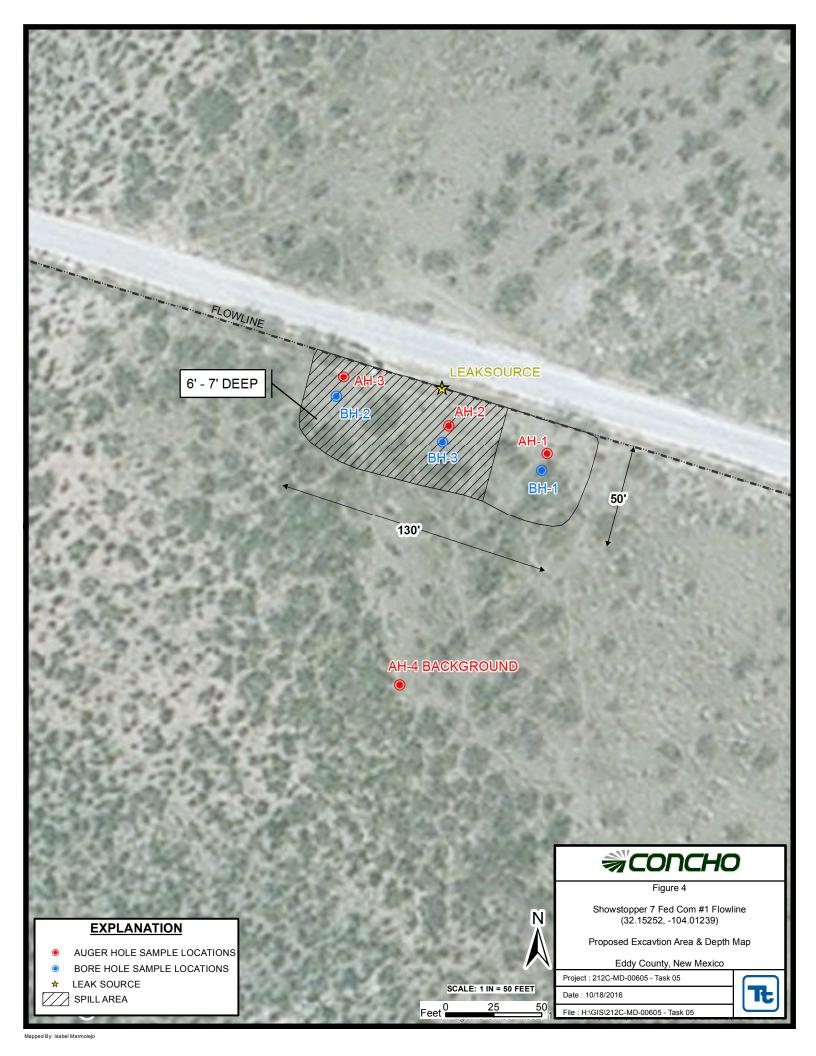
cc: Robert McNeill – COG Dakota Neel – COG Shelly Tucker - BLM Ike Tavarez, Senior Project Manager, P.G.

Figures









Tables

Table 1
COG Operating LLC.
Showstopper 7 Federal Commingle #1H
Eddy County, New Mexico

0	Sample	Sample	Soil	Status	-	ΓPH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride (mg/kg)
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	
AH-1	8/15/2016	0-1	X		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	688
	"	1-1.5	Χ		<10.0	<10.0	<10.0	< 0.050	<0.050	<0.050	<0.150	<0.300	192
	"	2-2.5	Χ		-	-	-	-	-	-	-	-	144
	"	3-3.5	Χ		-	-	-	-	-	-	-	-	496
	8/16/2016	4-4.5	Х		-	-	-	-	-	-	-	-	400
BH-1	10/12/2016	6-7	Х		-	-	-	-	-	-	-	-	1,100
	н	9-10	Χ		-	-	-	-	-	-	-	-	720
	"	14-15	Χ		-	-	-	-	-	-	-	-	48.0
	"	19-20	Х		-	-	-	-	-	-	-	-	64.0
AH-2	8/15/2016	0-1	X		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	22,800
	"	1-1.5	Х		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16,000
	"	2-2.5	Χ		-	-	-	-	-	-	-	-	15,200
	8/16/2016	3-3.5	Х		-	-	-	-	-	-	-	-	15,200
BH-2	10/12/2016	4-5	Х		-	-	-	-	-	-	-	-	11,700
	"	9-10	Χ		-	-	-	-	-	-	-	-	160
	н	14-15	Х		-	-	-	-	-	-	-	-	4,560
	п	19-20	Х		-	-	-	-	-	-	-	-	112
	II .	24-25	Х		-	-	-	-	-	-	-	-	336

Table 1
COG Operating LLC.
Showstopper 7 Federal Commingle #1H
Eddy County, New Mexico

O-marks ID	Sample	Sample	Soil	Status	1	ΓΡΗ (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-3	8/15/2016	0-1	Χ		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	11,200
	"	1-1.5	Χ		<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	15,200
	"	2-2.5	Χ		-	-	-	-	-	-	-	-	16,400
	8/16/2016	3-3.5	Χ		-	-	-	-	-	-	-	-	12,800
BH-3	10/12/2016	4-5	Χ		-	-	-	-	-	-	-	-	2,520
	"	6-7	Χ		-	-	-	-	-	-	-	-	3,320
	"	9-10	Χ		-	-	-	-	-	-	-	-	400
	"	14-15	Χ		-	-	-	-	-	-	-	-	192
	II .	19-20	Х		-	-	-	-	-	-	-	-	64.0
AH-4 Background	8/15/2016	0-1	Х		-	-	-	-	-	-	-	-	96.0
	"	1-1.5	Χ		-	-	-	-	-	-	-	-	32.0
	II .	2-2.5	Х		-	-		-	-	-	-	-	<16.0

(-) Not Analyzed

Proposed Excavation Depths

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Submit 2 27 to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action												
NAE	3/42/	105070	30	d a o		OPERA T	ror			l Report	☐ F	nal Report
Name of Co	mpany: C	OG Operatin	ig LLC	22413		 	bert McNeill					
Address: 60				d TX 79701 .AL COM #001		<u>Felephone N</u> Facility Typ	lo. 432-683-74	43				
		· · · · · · · · · · · · · · · · · · ·	/ FEDER				e. weii					
Surface Owi	ner: Fede	ral		Mineral C	wner: F	Pederal			API No.	. 30-015-36	5559	
						OF REI	LEASE					
Unit Letter A	Section 7	Township 25S	Range 29E	Feet from the 330'		South Line North	Feet from the 480'		West Line East		County Eddy	
			<u></u>		gitude	32.1511154	,-104.0167618		· · · · · · · · · · · · · · · · · · ·			
					_	OF RELI						
Type of Relea	ase:			INAI	UKE	Volume of			Volume R	ecovered:	· · ·	
Produced Wa	ter			····		20 bbls PW	/		0 bbls PW	·		
Source of Rel Poly Flowline						Date and H 7/16/2016,	our of Occurrenc	e:	Date and I 7/16/2016	Hour of Disc	covery:	
Was Immedia		Given?	 -			If YES, To			771072010	0.00 am		
			Yes	No 🛛 Not Re	equired							
By Whom?						Date and H			,			
Was a Watero	course Read	ched?	Yes 🗵	l No		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercou	rse was Im	pacted, Descri	be Fully.*			l				_		
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.*								
This release v	vas caused	by a ruptured	poly flow	ine. Although a v	acuum t	ruck was disp	natched, due to the	e hot we	eather no flu	uid was reco	verable.	
Describe Area	a Affected	and Cleanup A	Action Tak	en.*								
This release o	occurred in	the pasture alo	ong the ro:	ad in section 8 It	impacte	d annroximat	ely 3500 sq ft. Co	ncho w	ill have the	spill site sa	mpled to d	lelineate
any possible	contaminat	ion from the re	elease and	we will present a	remedia	ation work pla	an to the NMOCE) for ap	proval prior	to any sign	ificant rer	nediation
work.												
										_		
I hereby certi	fy that the	information gi	ven above	is true and comp	lete to th	ne best of my	knowledge and und perform correct	nderstar	nd that purs	uant to NM	OCD rule	s and
public health	or the envi	ronment. The	acceptance	e of a C-141 repo	ort by the	NMOCD m	arked as "Final R	eport" c	loes not reli	eve the oper	rator of lia	bility
should their o	perations h	ave failed to a	dequately	investigate and r	emediate	e contaminati	on that pose a three	cat to gi	ound water	, surface wa	iter, huma	n health
		iddition, NMC ws and/or regu		tance of a C-141	report a	oes not reliev	e the operator of	respons	ibility for ce	omphance w	viin any o	ner
		anda T.				<u> </u>	OIL CON	SERV	'ATION	DIVISIO	<u>N</u>	
Signature:			,						11			
Printed Name) ;	Amanda T	rujillo Da	vis		Approved by	Environmental S	pecialis	t: 1/2-6	n		
						Approval Dat	7/25/11	5 T	Expiration 1	Date: A	14	
Title:		enior Environ							DAPITATION I	Juic. 1	<i>L</i>	
E-mail Addre	ess:	atrujillo@	concho.co	om	'	Conditions of	f Approval: tion per O.C.I	ויים ח	as & Gui	Attached		
Date: July 2	<u>2, 20</u> 16		Phone:	575-748-6940		SUBMIT!	REMEDIATIO	N PR	OPOSAL	NO		
Attach Addit	tional She	ets If Necess	агу			LATER T	· // // ·	طلا		0	JRP2	3802 -:

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG - Showstopper 7 Federal Com #001H Eddy County, New Mexico

	25 9	South	2	8 East	
6	5	4 3	3 32	2	1
	59				
7	8	9	10	11	12
18	17	16	15 48	14	13
67			49		
19	20	21	22	23	24
	96				
30	29	28	27	26 40	25
	15	90			5
31	32	33	34	35	36
					40

	25 Sc	outh	29	East	
6 40	5	4	3	2	1
	8	9	10 40	11	12
لر 18	17	16	15 60	14	13
19	20	21	22	23	24
30 30	29	28	27	26	25
31	32 115	33	34	35	36

	25 Sc	uth	30	East	
6	5	4	3	2 295	1
7 264	8	9 295	10	11	12 390
18	17	16	15	14	13
19	20	21 265 268	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	26 Sc	uth	28	East	
6	5	4	3	2 120	1
				21	
7	8	9	10	11	12
					100
18	17	16	15	14	13
				120	56
19	20	21	22	23	24
			120		
30	29	28	27	26	25
31	32	33	34	35	36

	26 Sc	uth	29		
6	5 78	4	3	2	1
7	8	9	10	11	12
18	17	16 125	15	14	13
19	20	21	22 57 69	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	26 Sc	uth	30	East	
6	5 179 180	4	3	2	1
7	8 172	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24 180
30	29	28	27	26	25
31	32	33	34	35	36

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location



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

(R=POD has been replaced, O=orphaned,

closed)

& no longer serves a water right file.)

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	POD Sub- Code basin	County	Q C 641			: Tws	Rng	X	Y	•		Water Column
C 01337	С	ED		1		25S		591926	3552642* 🌕	180	30	150
<u>C 01880</u>	С	ED	3 3	2	06	25S	29E	592161	3558605* 🌕	85	40	45
C 02371	С	ED	2	3	15	25S	29E	596741	3555106*	200	60	140
<u>C 02459</u>	С	ED	4 4	1	02	25S	29E	598422	3558663* 🌕	150		
C 02518	С	ED	3	4	80	25S	29E	593895	3556300* 🌕	462		
<u>C 02680</u>	С	ED	2	3	15	25S	29E	596741	3555106*	200		
RA 07162 EXP2		ED	1 3	1	10	25S	29E	596214	3557222* 🌕	55	40	15

Average Depth to Water: 42 feet

Minimum Depth: 30 feet

(In feet)

Maximum Depth: 60 feet

Record Count: 7

PLSS Search:

Township: 25S Range: 29E

Appendix C

SAMPLE LOG

	JAIVII	PLE LUG		
Client:	COG			
Site Name	Showstopper 7 Fed Com #1			
Boring/Well:	BH-1			
GPS	32.15251, -104.01238			
Project #:	212C-MD-00605.05			
Total Depth	20'			
Date Installed:	10/12/2016			
			_	
DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	Field Chloride (mg/kg)	CONDUCTIVITY (ppm)
6-7'	Dense caliche, fine tan sand, and sandstone	No stain or odor	650	1,610
9-10'	Dense caliche, fine tan sand, and sandstone	No stain or odor	650	843
14-15'	Friable caliche and fine tan sand	No stain or odor	-	242
19-20'	Brown fine to silty sand	No stain or odor	200	267

SAMPLE LOG

	<u> </u>			
Client:	COG			
Site Name	Showstopper 7 Fed Com #1			
Boring/Well:	BH-2			
GPS	32.15254, -104.01268			
Project #:	212C-MD-00605.05			
Total Depth	25'			
Date Installed:	10/12/2016			
DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	Field Chloride (mg/kg)	CONDUCTIVITY (ppm)
4-5'	Dense caliche, fine tan sand & sandstone	No stain or odor	-	9,960
9-10'	Dense caliche, fine tan sand & sandstone	No stain or odor	-	414
14-15'	Dense caliche & fine tan sand	No stain or odor	-	3,130
19-20'	Brown fine sand	No stain or odor	180	380
24-25'	Brown fine sand	No stain or odor	240	262

SAMPLE LOG

	U.	WII LL LOG		
Client:	cog			
Site Name	Showstopper 7 Fed Com #1			
Boring/Well:	BH-3			
GPS	32.15261, -104.01260			
Project #:	212C-MD-00605.05			
Total Depth	20'			
Date Installed:	10/12/2016			
			T =:	
DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	Field Chloride (mg/kg)	CONDUCTIVITY (ppm)
4-5'	Dense & friable caliche	No stain or odor	-	2,310
6-7'	Dense & friable caliche	No stain or odor	-	3,320
9-10'	Brown fine sand	No stain or odor	-	539
14-15'	Brown fine sand	No stain or odor	240	593
19-20'	Brown fine sand	No stain or odor	180	140

Appendix D



August 23, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SHOWSTOPPER 7 FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 08/16/16 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Wile Sugh

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630

Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN Project Manager: DAKOTA NEEL ARTESIA NM, 88210

Fax To: NONE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 (0-1')	H601832-01	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-1 (1-1.5')	H601832-02	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-1 (2-2.5')	H601832-03	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-1 (3-3.5')	H601832-04	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-1 (4-4.5')	H601832-05	Soil	16-Aug-16 00:00	16-Aug-16 16:45
AH-2 (0-1')	H601832-06	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-2 (1-1.5')	H601832-07	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-2 (2-2.5')	H601832-08	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-2 (3-3.5')	H601832-09	Soil	16-Aug-16 00:00	16-Aug-16 16:45
AH-3 (0-1')	H601832-10	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-3 (1-1.5')	H601832-11	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-3 (2-2.5')	H601832-12	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-3 (3-3.5')	H601832-13	Soil	16-Aug-16 00:00	16-Aug-16 16:45
AH-4 BACKGROUND (0-1')	H601832-14	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-4 BACKGROUND (1-1.5')	H601832-15	Soil	15-Aug-16 00:00	16-Aug-16 16:45
AH-4 BACKGROUND (2-2.5')	H601832-16	Soil	15-Aug-16 00:00	16-Aug-16 16:45

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Mite Sough



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-1 (0-1') H601832-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	688		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B	
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.6	-140	6081701	MS	17-Aug-16	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctane			84.4 %	35-	147	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctadecane			93.7 %	28-	171	6081702	MS	17-Aug-16	8015B	

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Mite Sough



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN
Project Manager: DAKOTA NEEL

Fax To: NONE

AH-1 (1-1.5') H601832-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050	·	0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	·
Toluene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		·	106 %	73.6	-140	6081701	MS	17-Aug-16	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctane			84.8 %	35-	147	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctadecane			95.3 %	28-	171	6081702	MS	17-Aug-16	8015B	

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-1 (2-2.5') H601832-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										

Inorganic Compounds 16.0 6081706 AC 4500-Cl-B Chloride mg/kg 18-Aug-16

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-1 (3-3.5') H601832-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride 496 16.0 mg/kg 4 6081706 AC 18-Aug-16 4500-Cl-B

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Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-1 (4-4.5') H601832-05 (Soil)

		Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

 Inorganic Compounds
 400
 16.0
 mg/kg
 4
 6081706
 AC
 18-Aug-16
 4500-Cl-B

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Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-2 (0-1') H601832-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	22800		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.6	-140	6081701	MS	17-Aug-16	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctane			93.8 %	35-	147	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctadecane			108 %	28-	171	6081702	MS	17-Aug-16	8015B	

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Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN
Project Manager: DAKOTA NEEL

Fax To: NONE

AH-2 (1-1.5') H601832-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	16000		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.6	-140	6081701	MS	17-Aug-16	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctane			94.2 %	35-	147	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctadecane			104 %	28-	171	6081702	MS	17-Aug-16	8015B	

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Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-2 (2-2.5') H601832-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories

 Inorganic Compounds

 Chloride
 15200
 16.0
 mg/kg
 4
 6081706
 AC
 18-Aug-16
 4500-Cl-B

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-2 (3-3.5') H601832-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

15200 16.0 6081706 AC 4500-Cl-B Chloride mg/kg 18-Aug-16

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

ED COM #1H Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN
Project Manager: DAKOTA NEEL

Fax To: NONE

AH-3 (0-1') H601832-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	11200		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		107 %	73.6-140		6081701	MS	17-Aug-16	8021B		
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctane			87.2 %	35-	147	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctadecane			94.4 %	28-	171	6081702	MS	17-Aug-16	8015B	

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN
Project Manager: DAKOTA NEEL

Fax To: NONE

AH-3 (1-1.5') H601832-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	15200		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B	
Volatile Organic Compounds b	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6081701	MS	17-Aug-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		109 %	73.6-140		6081701	MS	17-Aug-16	8021B		
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctane			92.4 %	35-	147	6081702	MS	17-Aug-16	8015B	
Surrogate: 1-Chlorooctadecane			107 %	28-	171	6081702	MS	17-Aug-16	8015B	

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

0 Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-3 (2-2.5') H601832-12 (Soil)

Analyte Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride 16400 16.0 mg/kg 4 6081706 AC 18-Aug-16 4500-Cl-B

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL Fax To: NONE

AH-3 (3-3.5')

			H601	832-13 (Sc	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes

Cardinal Laboratories

Inorganic Compounds

Chloride 12800 16.0 mg/kg 4 6081706 AC 18-Aug-16 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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Mile Sough



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN
Project Manager: DAKOTA NEEL

Fax To: NONE

AH-4 BACKGROUND (0-1') H601832-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
Cardinal Laboratories														
Inorganic Compounds														
Chlorida	96.0		16.0	mø/kø	4	6081706	AC.	18-Aug-16	4500-Cl-B					

Cardinal Laboratories *=Accredited Analyte

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN
Project Manager: DAKOTA NEEL

Fax To: NONE

AH-4 BACKGROUND (1-1.5')

H601832-15 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
	Cardinal Laboratories														
<u>I</u>	Inorganic Compounds														
C	Chloride	32.0		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B					

Cardinal Laboratories *=Accredited Analyte

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

AH-4 BACKGROUND (2-2.5')

H601832-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
Cardinal Laboratories														
Inorganic Compounds														
Chloride	<16.0		16.0	mg/kg	4	6081706	AC	18-Aug-16	4500-Cl-B					

Cardinal Laboratories *=Accredited Analyte

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Mite Sough



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN

Project Manager: DAKOTA NEEL

Fax To: NONE

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes			
Batch 6081706 - 1:4 DI Water													
Blank (6081706-BLK1)				Prepared: 1	7-Aug-16 A	Analyzed: 1	8-Aug-16						
Chloride	ND	16.0	mg/kg										
LCS (6081706-BS1)				Prepared: 1	7-Aug-16 A	Analyzed: 1	8-Aug-16						
Chloride	400	16.0	mg/kg	400		100	80-120						
LCS Dup (6081706-BSD1)	Prepared: 17-Aug-16 Analyzed: 18-Aug-16												
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20				

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Mile Sough

%REC

106

73.6-140



Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

RPD

Project Number: NONE GIVEN

Reporting

0.0530

Spike

0.0500

Source

Project Manager: DAKOTA NEEL

Fax To: NONE

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6081701 - Volatiles										
Blank (6081701-BLK1)				Prepared &	Analyzed:	17-Aug-16	5			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0537		mg/kg	0.0500		107	73.6-140			
LCS (6081701-BS1)				Prepared &	Analyzed:	17-Aug-16	5			
Benzene	2.32	0.050	mg/kg	2.00		116	82.6-122			
Toluene	2.37	0.050	mg/kg	2.00		119	72.9-122			
Ethylbenzene	2.29	0.050	mg/kg	2.00		114	65.4-131			
Total Xylenes	6.90	0.150	mg/kg	6.00		115	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	73.6-140			
LCS Dup (6081701-BSD1)				Prepared &	Analyzed:	17-Aug-16	5			
Benzene	2.35	0.050	mg/kg	2.00		117	82.6-122	1.22	8.23	
Toluene	2.41	0.050	mg/kg	2.00		120	72.9-122	1.57	8.71	
Ethylbenzene	2.33	0.050	mg/kg	2.00		116	65.4-131	1.73	9.46	
Total Xylenes	7.00	0.150	mg/kg	6.00		117	73.8-125	1.52	8.66	

mg/kg

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wite Single

Surrogate: 4-Bromofluorobenzene (PID)



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1H

Reported: 23-Aug-16 09:20

Project Number: NONE GIVEN Project Manager: DAKOTA NEEL

Fax To: NONE

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes			
Batch 6081702 - General Prep - Organics													
Blank (6081702-BLK1)	Prepared & Analyzed: 17-Aug-16												

Diank (0001/02-DEIX1)				1 repared & 7 ma	iyzed. 17 Mug 10	,			
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0	95.1	35-147			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0	104	28-171			
LCS (6081702-BS1)				Prepared & Ana	lyzed: 17-Aug-16	5			
GRO C6-C10	189	10.0	mg/kg	200	94.3	76.7-115			
DRO >C10-C28	198	10.0	mg/kg	200	98.9	78.3-122			
Total TPH C6-C28	386	10.0	mg/kg	400	96.6	79.8-117			
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0	98.6	35-147			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0	106	28-171			
LCS Dup (6081702-BSD1)				Prepared & Ana	lyzed: 17-Aug-16	5			
GRO C6-C10	204	10.0	mg/kg	200	102	76.7-115	7.74	9.42	
DRO >C10-C28	212	10.0	mg/kg	200	106	78.3-122	7.06	13.2	
Total TPH C6-C28	416	10.0	mg/kg	400	104	79.8-117	7.39	10.7	
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0	103	35-147			
Surrogate: 1-Chlorooctadecane	56.1		mg/kg	50.0	112	28-171			

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Mile Sough



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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SAMPLE CONDITION WHEN BEGEIVED:	CONTACT:	RESS:		RELINQUISHED BY: (Signature)	RELINQUISHED BY: (Signature)	RELINQUISHED BY: (Signature)	10 8/15	91/8 5	51/8 8	7 8/15	6 8/15	5 8/116	1/8/12	3 8/15	2 8/15	1 8/15 5	LAB I.D. DATE TIME NUMBER 3016	Cod	H601852			Analysis R
REMARKS:	PHONE: LIFE L		Time:	Date:	Date:	Time: 0/16/16	F	3-	(2.8.51)	(1-1.	PH2 (0-1	4-4	(3-3	(2-2	(1-1.	X AH 1 (0-1)	COMP. GRAB GRAB		(432) 682-4559 •	1910 N. Big Spring St. Midland, Texas 79705	TETRA	equest of Cha
	DATE:	RECEIVED BY: (Signature)	-	RECEIVED BY: (Signature)	RECEIVED BY: (Signature)	REGIEVED WISIgnatures ALM		3,5')	51)	5)		.5()	3.5')	2.51)	1.5')		Eddy Co. AM SAMPLE IDENTIFICATION	SITE MANAGER: LANCO	(432) 682-4559 • Fax (432) 682-3946	Spring St. as 79705	TECH	Request of Chain of Custody Record
	TIME:		Тіте:	Date:	Date:	W Time: 41.45				><				7111	~	×	NUMBER OF CONTENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	PRESERVATIVE METHOD			9	Record
	4	Thotalan	TETRA TECH CONTACT PERSON:		Y: (Circle) BUS	To now or				×				****	X	×	PH 8015 MOI PAH 8270 RCRA Metals Ag TCLP Metals Ag TCLP Volatiles TCLP Semi Volati RCI GC.MS Vol. 8240/ GC.MS Semi. Vol PCB's 8080/608 Pest. 808/608 Chloride Gamma Spec.	As Ba (As Ba (les	Od Or Pl Od Vr Pa			PAGE: ANALYSIS REQUEST
	Yes No	RUSH Charges Authorized:	Results by:	OTHER:	AIRBILL #:	Time:											Alpha Beta (Air) PLM (Asbestos) Major Anions/Cat	tions, pH	, TDS	Pa		OF: 3

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

SAMPLE CONDITION WHEN RECEIVED: REMARKS: 15 Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy - Return Orginal copy - Return Orginal copy - Return Orginal copy - Project Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy - Return Orgi	NE: S	RECEIVING LABORATORY: Cadinal lah) RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature) Time: Time:	Date: RECEIVED BY: (Signature)	renson.	Date:	16 8/15 (2.2.5) 1 2 1	14 8/15 AH - 4 Background (0-1) IN X	13 8/116 (3-3.5")	12 8/15 (2-2,5') IN X		NUMBER AOLO COU Showshop 1 FCd Com # IN CO NO NUMBER COMP. SAMPLE IDENTIFICATION NUMBER COMP. SAMPLE IDENTIFICATION NUMBER CO NO NUMBER CO NUMBE	SITE MANAGER: ALTON GOVICA PROJECT NAME: A		Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	TETRA TECH	Clidill O	
Manager retains Pink copy - Accounting receives Gold copy.		Advon how Authorized:	TETRA TECH CONTACT PERSON: Results by:		E	SAMPLED BY: (Print & Initial) Date: 0110					X	PAH 8270 RCRA Metals A TCLP Metals A TCLP Volatiles TCLP Semi Vol. RCI GC.MS Vol. 824 GC.MS Semi. V PCB's 8080/608 Pest. 808/608	OD TX1 g As Ba g As Ba atiles 40/8260/6 /ol. 8270/6 8	Cd Cd Vi	r Pd Hg	Se	ANALYSIS REQUEST (Circle or Specify Method No.)	PAGE: C OF: 7



October 14, 2016

IKE TAVAREZ

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SHOWSTOPPER 7 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 10/12/16 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



COG OPERATING P. O. BOX 1630

Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05 Project Manager: IKE TAVAREZ ARTESIA NM, 88210

Fax To: NONE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (AH-1) 6-7	H602308-01	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-1 (AH-1) 9-10	H602308-02	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-1 (AH-1) 14-15	H602308-03	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-1 (AH-1) 19-20	H602308-04	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-2 (AH-2) 4-5	H602308-05	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-2 (AH-2) 9-10	H602308-06	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-2 (AH-2) 14-15	H602308-07	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-2 (AH-2) 19-20	H602308-08	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-2 (AH-2) 24-25	H602308-09	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-3 (AH-3) 4-5	H602308-10	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-3 (AH-3) 6-7	H602308-11	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-3 (AH-3) 9-10	H602308-12	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-3 (AH-3) 14-15	H602308-13	Soil	12-Oct-16 00:00	12-Oct-16 15:50
BH-3 (AH-3) 19-20	H602308-14	Soil	12-Oct-16 00:00	12-Oct-16 15:50

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Celeg D. Keene

13-Oct-16



1100

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210

Chloride

Project: SHOWSTOPPER 7 FED COM #1

6101308

Reported: 14-Oct-16 16:15

4500-Cl-B

Project Number: 2120-MD-00605.05 Project Manager: IKE TAVAREZ

Fax To: NONE

BH-1 (AH-1) 6-7 H602308-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
Cardinal Laboratories														
norganic Compounds														

mg/kg

16.0

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-1 (AH-1) 9-10 H602308-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ries					

 Inorganic Compounds

 Chloride
 720
 16.0
 mg/kg
 4
 6101308
 AC
 13-Oct-16
 4500-Cl-B

Cardinal Laboratories *=Accredited Analyte

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-1 (AH-1) 14-15

H602308-03 (Soil)

Reporting Limit Result MDL Units Dilution Method Analyzed Notes Analyte Batch Analyst

Cardinal Laboratories

Inorganic Compounds

16.0 6101308 AC 13-Oct-16 4500-Cl-B Chloride 48.0 mg/kg

Cardinal Laboratories *=Accredited Analyte

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

M #1 Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05 Project Manager: IKE TAVAREZ

Fax To: NONE

BH-1 (AH-1) 19-20 H602308-04 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborat	ories					
Iı	norganic Compounds										
C	Chloride	64.0		16.0	mg/kg	4	6101308	AC	14-Oct-16	4500-Cl-B	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-2 (AH-2) 4-5 H602308-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Not
			Cardin	al Lahorai	ories					

Cardinal Laboratories

Inorganic Compounds 11700 16.0 mg/kg 6101308 14-Oct-16 4500-Cl-B Chloride

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-2 (AH-2) 9-10 H602308-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			G 11							

Cardinal Laboratories

Inorganic Compounds 16.0 6101308 14-Oct-16 4500-Cl-B Chloride mg/kg

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

OX 1630 Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-2 (AH-2) 14-15

H602308-07 (Soil)

Analyte Result MDL Reporting Limit Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

Inorganic Compounds

Chloride 4560 16.0 mg/kg 4 6101308 AC 14-Oct-16 4500-Cl-B

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-2 (AH-2) 19-20

H602308-08 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

Inorganic Compounds

Chloride 112 16.0 mg/kg 4 6101308 AC 14-Oct-16 4500-Cl-B

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-2 (AH-2) 24-25

H602308-09 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

Inorganic Compounds

Chloride 336 16.0 mg/kg 4 6101308 AC 14-Oct-16 4500-Cl-B

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Celeg D. Freene

14-Oct-16



Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210

Chloride

Project: SHOWSTOPPER 7 FED COM #1

6101308

Reported: 14-Oct-16 16:15

4500-Cl-B

BOX 1630 Project Number: 2120-MD-00605.05

2520

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-3 (AH-3) 4-5 H602308-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Inorganic Compounds			Cardin	al Laborat	ories					

mg/kg

16.0

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-3 (AH-3) 6-7 H602308-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					

Inorganic Compounds 3320 16.0 6101308 14-Oct-16 4500-Cl-B Chloride mg/kg

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-3 (AH-3) 9-10 H602308-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	l Laborato	ories					

Inorganic Compounds 16.0 6101308 14-Oct-16 4500-Cl-B Chloride mg/kg

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-3 (AH-3) 14-15 H602308-13 (Soil)

Reporting Limit Result MDL Units Dilution Method Analyzed Notes Analyte Batch Analyst

Cardinal Laboratories

Inorganic Compounds

16.0 6101308 AC 14-Oct-16 4500-Cl-B Chloride 192 mg/kg

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Reported: 14-Oct-16 16:15

O. BOX 1630 Project Nur

Project Number: 2120-MD-00605.05

Project Manager: IKE TAVAREZ

Fax To: NONE

BH-3 (AH-3) 19-20 H602308-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	64.0		16.0	mg/kg	4	6101308	AC	14-Oct-16	4500-Cl-B		

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COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: SHOWSTOPPER 7 FED COM #1

Project Number: 2120-MD-00605.05

14-Oct-16 16:15

Reported:

Project Manager: IKE TAVAREZ

Fax To: NONE

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6101308 - 1:4 DI Water										
Blank (6101308-BLK1)				Prepared &	Analyzed:	13-Oct-16				
Chloride	ND	16.0	mg/kg							
LCS (6101308-BS1)				Prepared &	Analyzed:	13-Oct-16				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (6101308-BSD1)				Prepared &	Analyzed:	13-Oct-16				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Duplicate (6101308-DUP1)	Sourc	е: Н602307-	01	Prepared &	Analyzed:	13-Oct-16				
Chloride	112	16.0	mg/kg		96.0			15.4	20	
Matrix Spike (6101308-MS1)	Sourc	е: Н602307-	01	Prepared &	Analyzed:	13-Oct-16				
Chloride	480	16.0	mg/kg	400	96.0	96.0	80-120			

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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SIAIE: SIAIE:	RECEIVING LABORATORY:	RELINQUISHED BY: (Signature)		RELINQUISHED BY: (Signature)	RELINQUISHER BY: (Signature)		9 ♦	8	7	6	C	t	2		1 10/12		ROJECT NO.:	COG	H602308				Analysis
PHONE: LIP:	Cardinal	Date: Time:	Time:	Date:	Time: 3:48 pm	Western Control of the Control of th	4		,,	11	BH-2 (AH-2)	"	7	"	5 XBH-1 (AH-1)	MATRIX COMP. GRAB	PROJECT NAME:	SITE MANAGER:		Midland, (432) 682-45	TETR 1910 N. E		
DATE:	RECEIVED BY: (Signature)	RECEIVED BY: (Signature)		GECEIVED BY: (Signature)	HECEMED BY: (Signature)		34-25	19-20	14-15	9-10	2) 4-5	19-20	14-15	9-10)6-7	Edoly County, NA	म रूप	TKC Tavere Z		Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	TETRA TECH 1910 N. Big Spring St.		Request of Chain of Custody Record
TIME:		Date: Time:	Time:	Date:	M Time: 12.51	_			- *		_	_ ×			- 7 +	NUMBER OF FILTERED HCL HNO3 ICE NONE	(Y/N)	PRESERVATIVE METHOD	1				v Record –
	Jeanne Fitch	3	HAND DELIVERED UPS	SAMPLE SHIPPED BY: (Circle)	SAMPLED BY: (Print & Initial)												sals Ag A sals Ag A tals Ag A tiles ii Volatiles mi. Vol. 6	As Ba (As Ba (Od Cr		Se	ANALYSIS REQUEST (Circle or Specify Method No.)	PAGE:
Yes No	RUSH Charges	Results by:	OTHER:	AIRBILL #:	Time: 10/12//6		*	*	*	*	X	*	*	×	*	Chloride Gamma S Alpha Beta PLM (Asbo Major Anio	a (Air) estos)	ons, pH,	TDS		Page		OF: 2

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

SAMPLE SONDITION WHEN RECEIVED:		RECEIVING LABORATORY:	RELINQUISHED BY: (Signature)	RELINQUISHED BY: (Signature)	RELINQUISHED BY (Signature)	2	4	3	12	=	10 10/12 S	NUMBER 20/6	214 C-MOL-00(005: 05	CLIENT NAME: COS		Allalysis	Analysis Re
REMARKS: B. II direct	STATE: ZIP: DATE:	RECEIVED BY: (Signature)	Date: RECEIVED BY: (Signature)		Date: MICH PEGENBON: (Signature		11 19-20	S1-H1 13	01-6 11	11 67	1 BH-3 (AH.3) 4-5	COMP. SAMPLE IDENTIFICATION Eddy County NM	PROJECT NAME: Show Stopped 7 Fed Comm.	SITE MANAGER: TOUCKEZ	TETRA TECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946		Request of Chain of Custody Record
Project N	TIME:		Time:	Time:	MAON Time:							NUMBER FILTERED HCL HNO3 ICE NONE		PRESERVATIVE METHOD			tody Record
lanager retains Pink copy - Accounting receive		Jeanne Fitch	TETRA TECH CONTACT PERSON:	FEDEX HAND DELIVERED UPS	SWALL CENTROL BY (Line)						*	PAH 8270 RCRA M TCLP M TCLP Vo TCLP Se RCI GC.MS V	onto MOD betals Ag letals Ag latiles mi Volatil vol. 8240/ Semi. Vol. 080/608	As Ba Co	d Cr Pb Hg Se d Vr Pd Hg Se	ANALYSIS REQUEST (Circle or Specify Method No.)	PAGE:
receives Gold copy.	Yes No	RUSH Charges	Results by:	OTHER:	Time: 0/12 / 10	Date: A L						Gamma Alpha Be PLM (As	Spec. eta (Air) bestos)	iions, pH,	TDS Page 20		OF: 2