District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

JUL 0 1 2011

HOBBS OCD

Form C-141 Revised October 10, 2003

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

RECEIVED

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

N OF RELE/South Line North Longitude OF RELE Volume of 1 Date and H 12/13/09 If YES, To	EASE Release 15 bbls our of Occurrence Whom?	East/West Line East Volume F Date and 12/13/09	No. 30-025- County Recovered 0 Hour of Disc	Lea	
N OF RELE/South Line North Longitude OF RELE Volume of 1 Date and He 12/13/09 If YES, To Date and He If YES, Vol	EASE Feet from the 330 e W 103 43.795 EASE Release 15 bbls our of Occurrence Whom?	East/West Line East Volume F Date and 12/13/09	County Recovered 0	Lea	
N OF RELE/South Line North Longitude OF RELE Volume of 1 Date and He 12/13/09 If YES, To Date and He If YES, Vol	Feet from the 330 e W 103 43.795 EASE Release 15 bbls our of Occurrence Whom?	East/West Line East Volume F Date and 12/13/09	County Recovered 0	Lea	
VSouth Line North Longitude OF RELF Volume of 1 Date and He 12/13/09 If YES, To Date and He If YES, Vol	Feet from the 330 e W 103 43.795 EASE Release 15 bbls our of Occurrence Whom?	East/West Line East Volume F Date and 12/13/09	County Recovered 0	Lea	
VSouth Line North Longitude OF RELF Volume of 1 Date and He 12/13/09 If YES, To Date and He If YES, Vol	Feet from the 330 e W 103 43.795 EASE Release 15 bbls our of Occurrence Whom?	East Volume F Date and 12/13/09	Recovered 0	bbls	
VSouth Line North Longitude OF RELF Volume of 1 Date and He 12/13/09 If YES, To Date and He If YES, Vol	Feet from the 330 e W 103 43.795 EASE Release 15 bbls our of Occurrence Whom?	East Volume F Date and 12/13/09	Recovered 0	bbls	
Volume of Date and He 12/13/09 Date and He If YES, Vol	330 e W 103 43.795 EASE Release 15 bbls our of Occurrence Whom?	East Volume F Date and 12/13/09	Recovered 0	bbls	
OF RELF Volume of 1 Date and He 12/13/09 If YES, To Date and He If YES, Vol	Release 15 bbls our of Occurrence Whom?	Volume F Date and 12/13/09			
Volume of 1 Date and He 12/13/09 If YES, To Date and He If YES, Vol	Release 15 bbls our of Occurrence Whom?	Date and 12/13/09			
Date and He 12/13/09 If YES, To Date and He If YES, Vol	our of Occurrence Whom? our	Date and 12/13/09			
I2/13/09 If YES, To Date and He If YES, Vol	Whom?	12/13/09	Hour of Disc	covery	
If YES, To Date and He If YES, Vol	our				
Date and He If YES, Vol	our	e Watercourse.			
If YES, Vol		e Watercourse.			
	lume Impacting th	e Watercourse.			
N/A					
il that exceede	d RRAL was remo				
he best of my lotifications and NMOCD made contamination	knowledge and und perform correction the das "Final Report that pose a threat	derstand that purs ve actions for rele port" does not reli at to ground water	suant to NMC eases which is	OCD rule may end ator of li	es and anger ability an health
	OIL CONS	ERVATION	DIVISIO	N	
Approved by I	District Supervisor	:	1		
Approval Date	2:	Expiration I	Date:		
Conditions of	Approval:		Attached		
i h	il that exceeder mil liner instance best of my obtifications and exceeded military manager in the contamination of	ne best of my knowledge and unotifications and perform corrective NMOCD marked as "Final Reject contamination that pose a threat pose not relieve the operator of re	il that exceeded RRAL was removed and hauled a mil liner installed. Tetra Tech prepared closure removed and hauled a mil liner installed. Tetra Tech prepared closure removed in the best of my knowledge and understand that purso diffications and perform corrective actions for release NMOCD marked as "Final Report" does not relieve contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the operator of responsibility for contamination that pose a threat to ground water pose not relieve the pose not relieve the pose no	il that exceeded RRAL was removed and hauled away for proposition in the best of my knowledge and understand that pursuant to NMC orifications and perform corrective actions for releases which is NMOCD marked as "Final Report" does not relieve the operate contamination that pose a threat to ground water, surface was one not relieve the operator of responsibility for compliance we open on the compliance of the compliance of the compliance was a superior of the compliance of th	il that exceeded RRAL was removed and hauled away for proper disponent mil liner installed. Tetra Tech prepared closure report and submitted to the best of my knowledge and understand that pursuant to NMOCD rule orifications and perform corrective actions for releases which may end to NMOCD marked as "Final Report" does not relieve the operator of lie e contamination that pose a threat to ground water, surface water, hum pose not relieve the operator of responsibility for compliance with any contamination that pose a threat to ground water, surface water, hum pose not relieve the operator of responsibility for compliance with any contamination that pose a threat to ground water, surface water, hum pose not relieve the operator of responsibility for compliance with any contamination that pose a threat to ground water, surface water, hum pose not relieve the operator of responsibility for compliance with any contamination that pose a threat to ground water. **DIL CONSERVATION DIVISION** Approved by District Supervisor: **Expiration Date:**

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PJXK 1601145069 4999 Form C-141 Revised October 10, 2003

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

JUL 0 1 2011

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Release Notification and Corrective Addition

Name of Co						OPERA	LOIL	· K	Initial	al Report		Final Rep
	mpany C	COG OPERA	ATING L	LC		Contact K	anicia Carrillo					
Address 550						Telephone N	No. 432-685-4	332		AL THE	10 TH	No.
Facility Nan	ne – Jon-E	3ob #1				Facility Typ	e- Battery					
Surface Own	ner Feder	al		Mineral (Dwner		200		I ease N	No. 30-025	-2497	3
Juliuce O WI	ner reder	41		1197-			Table 4		Lease 1	10. 50-025	7-2471.	
					_	N OF REI		100	199			
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/W		County	190	
A	35	17S	32E	660		North	330	Ea	ast	1.0	Lea	
				_atitude_N32 4	17.770°	Longitud	le W 103 43.7	95'				
			:	NAT	TURE	OF RELI	EASE					
Type of Relea	ase- Water				-		Release- 15 bbls	S	Volume F	Recovered- () bbls	-
Source of Rel						Date and H	lour of Occurren	ce-		Hour of Dis	covery	
17/ 1 1		2: 0				12/13/09	1111 - 0		12/13/09			
Was Immedia	ite Notice C		Yes 🗌	No 🛛 Not Re	equired	If YES, To	Whom?					
By Whom?	1. 14. (4.	18 N 15				Date and H						
Was a Watero	course Read	ched?	Yes [No		If YES, Vo	olume Impacting	the Water	course.			
Describe Cau The discharge				n Taken.* Iled off the pump.	. The p	ump was repai	ired.				1	
Describe Area The water floo pasture. We s Tetra Tech with NMOCD for s I hereby certified regulations al	a Affected a wed west in scraped the ill sample the your approach. The transfer of that the ill operators	and Cleanup and the 2' wide road and hau he spill site and val prior to an information gare required to	Action Tak ditch along aled off con rea to delin ay signification	ten.* g the lease road. taminated soil. teate any possible ant remediation w is true and comp ad/or file certain r	About I contain york.	150 yards west nination from t the best of my notifications ar	of the battery, the release and we knowledge and and perform corre	ve will pres	that purs	nediation wo	OCD ru	to the
Describe Area The water floo pasture. We s Tetra Tech with NMOCD for y I hereby certified regulations all public health should their o	a Affected a wed west in scraped the ill sample the your approvement of the environment. In a	and Cleanup and the 2' wide road and hau he spill site and val prior to an information gare required to ronment. The lave failed to addition, NMC	Action Tak ditch along aled off con rea to delin ry signification iven above to report an e acceptance adequately OCD accep	ten.* g the lease road. ataminated soil. eate any possible ant remediation w	About I contain york.	the best of my notifications are NMOCD mate contamination	of the battery, the release and we knowledge and perform correarked as "Final Fon that pose a the the operator of	understand ctive actio Report" do reat to gro	I that purs ns for rele es not reli und water ility for co	suant to NM eases which ieve the ope r, surface wa ompliance v	OCD rumay en rator of ater, huivith any	to the ales and danger liability man health
Describe Area The water floo pasture. We s Tetra Tech with NMOCD for s I hereby certified regulations all public health should their o for the environ	a Affected a wed west in scraped the ill sample the your approvement of the environment. In a	and Cleanup and the 2' wide road and hau he spill site and val prior to an information gare required to ronment. The lave failed to addition, NMC	Action Tak ditch along aled off con rea to delin ry signification iven above to report an e acceptance adequately OCD accep	ten.* g the lease road. taminated soil. teate any possible int remediation w is true and comp d/or file certain r e of a C-141 repo investigate and r	About I contain york.	the best of my notifications are NMOCD mate contamination	of the battery, the release and we knowledge and perform correarked as "Final Fon that pose a th	understand ctive actio Report" do reat to gro	I that purs ns for rele es not reli und water ility for co	suant to NM eases which ieve the ope r, surface wa ompliance v	OCD rumay en rator of ater, huivith any	to the ales and danger liability man health
Describe Area The water floo pasture. We s Tetra Tech wi NMOCD for y I hereby certifications all public health should their o for the environ federal, state,	a Affected a wed west in scraped the ill sample the your approvement of the environment. In a or local law	and Cleanup and Cleanup and the 2' wide road and hau he spill site and val prior to an information gare required to ronment. The nave failed to addition, NMC was and/or regular to regular	Action Tak ditch along aled off con rea to delin ry signification iven above to report an e acceptance adequately OCD accep	ten.* g the lease road. taminated soil. teate any possible int remediation w is true and comp d/or file certain r e of a C-141 repo investigate and r	About I contain york.	the best of my notifications are NMOCD mate contamination	of the battery, the release and we knowledge and perform correarked as "Final Fon that pose a the the operator of	understand ctive actio Report" do reat to groot responsibilities	I that purs ns for rele es not reli und water ility for co	suant to NM eases which ieve the ope r, surface wa ompliance v	OCD rumay en rator of ater, huivith any	to the ales and danger liability man health
Describe Area The water floo pasture. We s Tetra Tech wi NMOCD for s I hereby certifications all public health should their o for the environ federal, state, Signature:	a Affected a wed west in scraped the ill sample the your approvement. In a or local law as the control of the environment. In a or local law as the control of the environment. In a or local law as the control of the environment. In a or local law as the control of the environment. In a or local law as the control of the environment. In a or local law as the control of the environment. In a or local law as the environment.	and Cleanup and Cleanup and the 2' wide road and hau he spill site and val prior to an information gare required to ronment. The lave failed to addition, NMC was and/or regular control of the control o	Action Tak ditch along aled off con rea to delin ry signification iven above to report an e acceptance adequately OCD accep	ten.* g the lease road. taminated soil. teate any possible int remediation w is true and comp d/or file certain r e of a C-141 repo investigate and r	About I contain york.	the best of my notifications are NMOCD mate contamination	of the battery, the release and we knowledge and and perform correlarked as "Final Fon that pose a the the operator of OIL CON District Supervisor	understand ctive actio Report" doc reat to ground responsible (SERVA)	I that purs ns for rele es not reli und water ility for co	suant to NM eases which ieve the ope r, surface wa ompliance v	OCD rumay en rator of ater, huivith any	to the lles and danger liability man health

SITE INFORMATION Report Type: Closure Report

General Site In	itormation:						
Site:		Jon-Bob #1 Tank Batter	y and the second				
Company:		COG Operating LLC					
	ship and Range	Section 35, T17S, R32E	Unit Letter - A NE 1/4				
Lease Number	:	30-025-24973					
County:		Lea County					
GPS:		N 32.79613° W 103.730	019°				
Surface Owner		State					
Mineral Owner	:						
Directions:		From intersection of 529 and location	I 126, Go east on 529 (1.8m), turn left north (0.4m), turn right to				
Release Data:							
Date Released:		12/13/2009					
Type Release:		Produced water					
Source of Conta	amination:	Discharge line pulled off of pump					
Fluid Released:		15 barrels					
Fluids Recovere	ed:	0 barrels					
Official Comm	unication:		对点,然后,是是我们的人们的人们的人们的人们的人们们们们们们们们们们们们们们们们们们们们们们				
Name:	Pat Ellis		Ike Tavarez				
Company:	COG Operating, L	LC	Tetra Tech				
Address:	550 W. Texas Av	e. Ste. 1300	1910 N. Big Spring				
P.O. Box							
City:	Midland Texas, 79	0701	Midland, Texas				
Phone number:	(432) 686-3023	and the second second	(432) 631-0348				

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:	10	

Fax:

Email:

(432) 684-7137

pellis@conchoresources.com

Acceptal	ole Soil RRAL (m	ig/kg)
Benzene	Total BTEX	TPH
10	50	1,000

ike.tavarez@tetratech.com

JUL 0 1 2011



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JUL 01 2011

April 12, 2011

RECEIVED

Mr. Geoffrey Lekina **Environmental Engineer Specialist** Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Closure Report for the COG Operating LLC, Jon-Bob Tank Battery, Unit A, Section 35, Township 17 South, Range 32 East, Lea County, New Mexico.

Mr. Leking:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC (COG) to assess a spill from the Jon-Bob Tank Battery located in Unit A, Section 35, Township 17 South, Range 32 East, Lea County, New Mexico. The spill site coordinates are N 32° 47.778, W 103° 43.793. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Release Report, the leak was discovered on December 13, 2009, and released approximately fifteen (15) barrels of produced water when a discharge line pulled loose from the transfer pump located at the tank battery. To alleviate the problem, COG personnel repaired the pump. Zero (0) barrels were recovered. The spill ran off the southwest corner of the pad location, migrated down a lease road 650' and pooled in a native low-lying pasture area west of the tank battery. The initial and final C-141 forms are enclosed in Appendix C.

Groundwater

The United States Geological Survey (USGS) Well Reports did not list any wells in Section 35. However, the New Mexico Office of the State Engineer did list a well in Section 28 with a reported depth of 158' below ground surface (bgs). According to the NMOCD map, the depth to groundwater in this area is <100'. The groundwater data is shown in Appendix A.

Tetra Tech



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 February 8, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of five (8) auger holes (AH-1 through AH-8) were installed using a stainless steel hand auger to assess the impacted soils. Soil samples were collected to a depth of 4-4.5' in the majority of the auger holes. Deeper samples could not be collected due to a dense caliche formation. Select 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 B. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all the submitted samples were below the RRAL for TPH and BTEX. The chloride concentrations for AH-1, AH-5, and AH-6 were all below 200 mg/kg. Elevated chloride concentrations were detected for AH-2 (3.5') of 8,320, AH-3 (4.5') of 3,050, AH-4 (3') of 3,470 mg/kg, AH-7 (4') of 944 mg/kg, and AH-8 (2') of 5,690 mg/kg.

In order to define the chloride impact, soil borings were installed at each auger hole location. On March 3, 2010, Tetra Tech personnel supervised the installation of soil borings (SB-1 through SB-5) utilizing an air rotary drilling rig. Referring to Table 1, all samples collected from the soil borings vertically defined the chloride impact. The chloride concentrations declined to <250 mg/kg at SB-1 (20') (SB-2 (10'), SB-3 (15'), SB-4 (15'), and SB-5 (20').



Remedial Work and Closure Request

On February 7, 2011, Tetra Tech personnel supervised the excavation of the site. The soil remediation was performed according to the approved work plan. The excavations measured approximately 25' x 250', 3' x 390', and 60' x 205', with depths from 4' to 8' below grade surface. Approximately 2,020 yards³ were removed and hauled to CRI Inc. for proper disposal. Photos of the excavation are attached. The excavation depths are highlighted in Table 1 and shown on Figure 3.

Once excavated, Tetra Tech collected bottom hole confirmation samples, as shown on Figure 4. The confirmation sample results are summarized in Table 2. Based on the results, NMOCD requested the bottom of the excavation be lined to the cap the areas. A 40 mil liner was installed at 4' below surface and backfilled with clean material to grade. A copy of the C-141 (Final) is included in Appendix A.

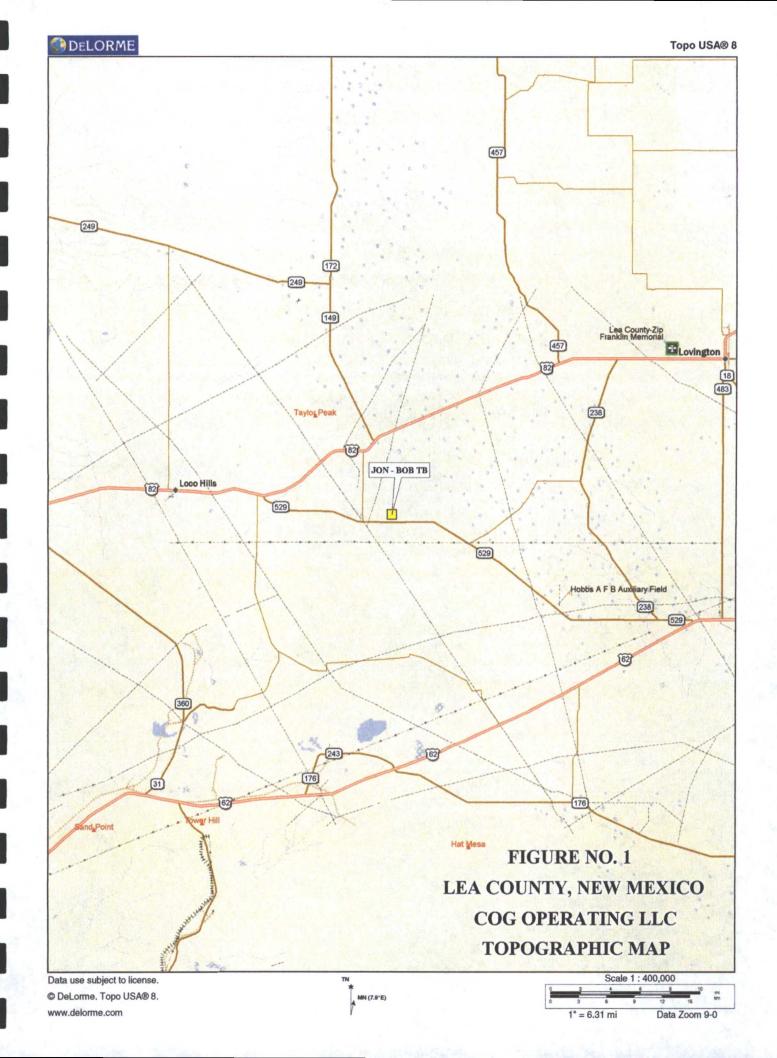
Based on the remedial activities performed at this site, COG request closure of this site. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

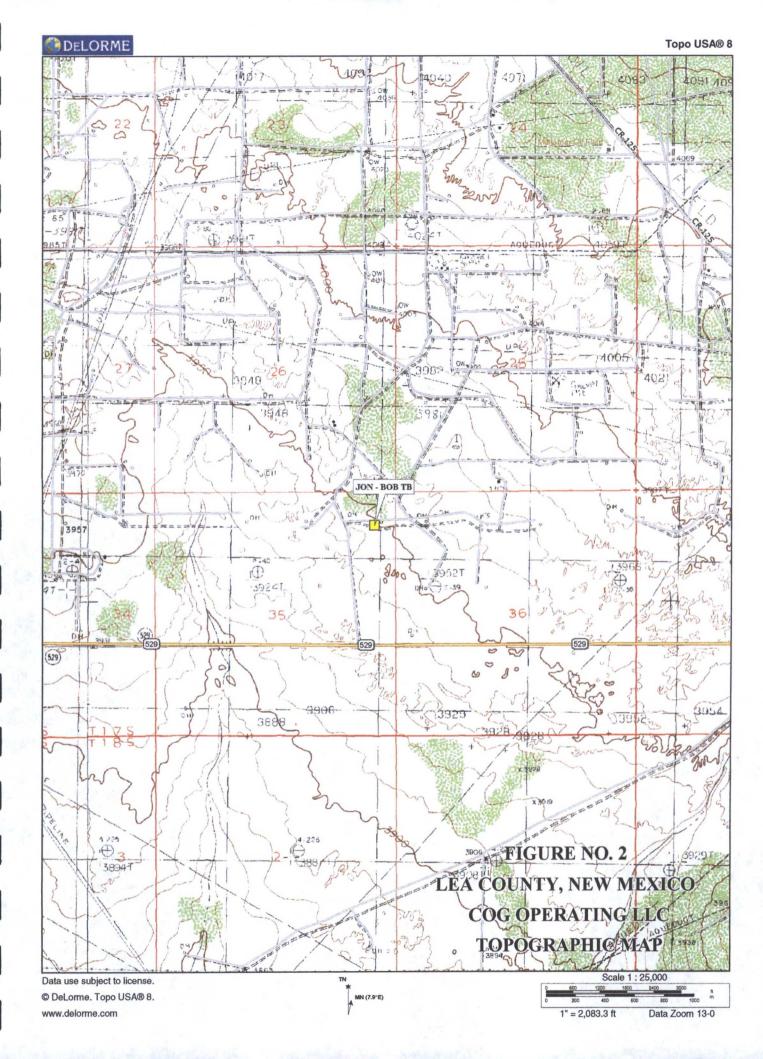
Respectfully submitted,

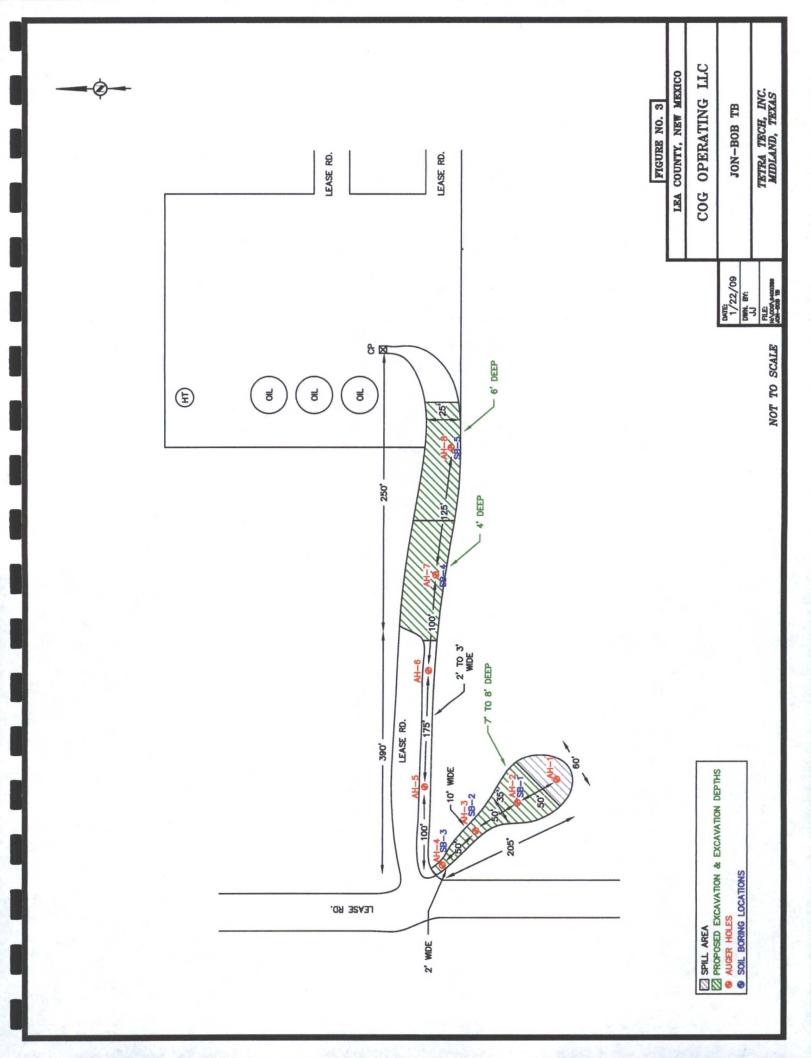
TETRA TECH

Kim Dorey Staff II Geologist

Pat Ellis - COG







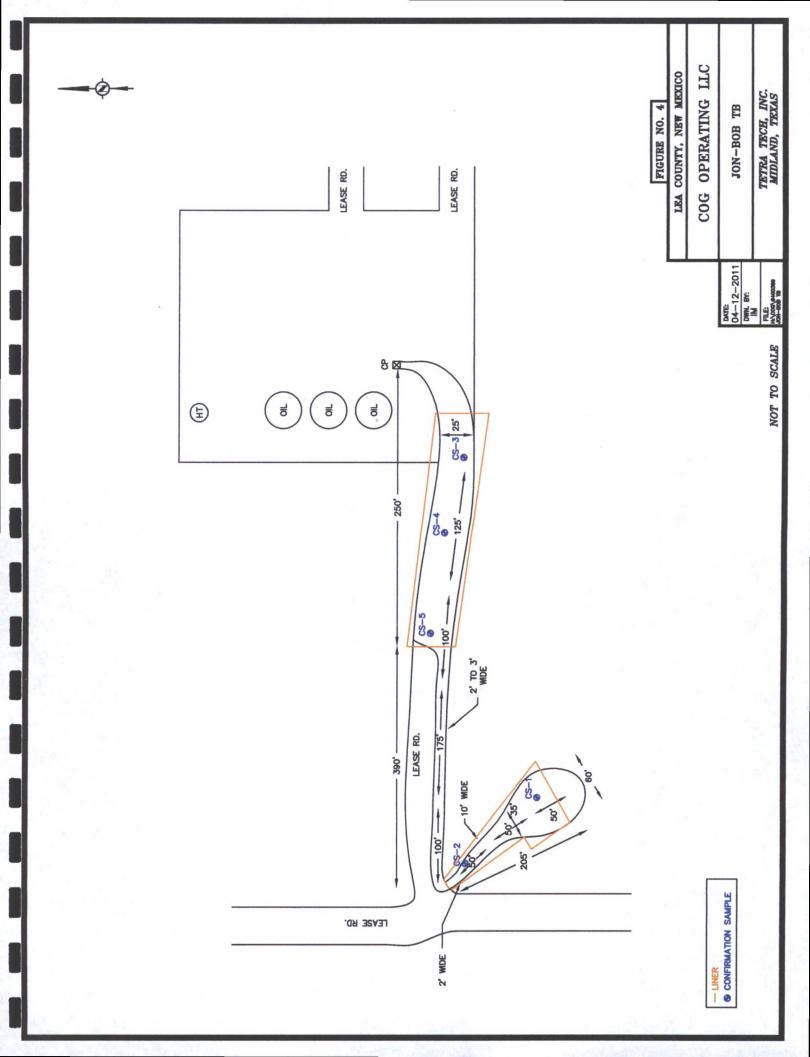


Table 1
COG Operating LLC.
Jon-Bob Tank Battery
LEA COUNTY, NEW MEXICO

Sample	Sample	Sample	Soil	Soil Status	1	TPH (mg/kg)	(b)	Benzene	Toluene	Ethivbenzene	Xvlene	Chloride
ID	Date	Depth (ft)	In-Situ	Removed	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	2/8/2010	0-1,	×		<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<200
		1-1.5	×			1	,			L		<200
		2-2.5'	×		1	1				1	1.	<200
												0
AH-2	2/8/2010	0-1,	×				•		-			1,050
		1-1.5	×		-	•			•		•	3,650
		2-2.5'	×								•	5,760
		3-3.5	×				•				•	4,050
0		3.5-4'	×		-							8,320
SB-1	3/4/2010	4-5'	×			,	-					13,400
		.2-9	×			-	-		•			13,200
		10-11	×		1	1		-		-		469
		15-16'	×		1	1	-			-	1	510
		20-21	×		1	1	1			-		232
		25-26'	×		,	1			,			<200

Table 1
COG Operating LLC.
Jon-Bob Tank Battery
LEA COUNTY, NEW MEXICO

Sample	Sample	Sample	Soil	Soil Status	T	TPH (mg/kg)	(g)	Benzene	Toluene	Ethlybenzene	Xvlene	Chloride
0	Date	Depth (ft)	In-Situ	Removed	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-3	2/8/2010	0-1,	×		<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	902
		1-1.5'	×			•						1,550
		2-2.5'	×			-			•			2,100
		3-3.5	×		•	•						2,970
		4-4.5'	×		-	1		-	•	•		2,070
		4.5-5'	×		•	•		•	•	•	-	3,050
SB-2	3/4/2010	4-5'	×		•			•	•		•	652
		.2-9	×			•						2,190
		10-11	×		7-1	-						<200
		15-16'	×		1					- 4		636
		20-21	×		,	,						<200
		25-26'	×						-	-	,	<200
AH-4	2/8/2010	0-1,	×		<50.0	<1.00	<50.0					<200
		1-1.5	×									<200
		2-2.5'	×				•			1		561
		3-3.5'	×			•	•	•		•	•	3,470
SB-3	3/4/2010	4-5'	×				•	1		•		1.560
		.2-9	×						•			2,500
1		10-11	×		- 30°					-		321
		15-16'	×		-		,	'				203
		20-21	×		-		-					<200
		25-26'	×	1	,			,	,			<200

Table 1
COG Operating LLC.
Jon-Bob Tank Battery
LEA COUNTY, NEW MEXICO

Sample	Sample	Sample	Soil	Soil Status	I	TPH (mg/kg)	(6)	Benzene	Toluene	Ethlybenzene	Xviene	Chloride
ID	Date	Depth (ft)	In-Situ	Removed	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-5	2/8/2010	0-1,	×		<50.0	<1.00	<50.0					<200
		1-1.5'	×		-	1					,	<200
		2-2.5'	×		1	1	1,	,				<200
-1		3-3.5	×		1		-				1	<200
AH-6	2/8/2010	0-1,	×		<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<200
		1-1.5'	×		1	1	1	1	-	1	:	<200
		2-2.5'	×		1	1	-	-	1	1	:	<200
AH-7	2/8/2010	0-1,	×		<50.0	<1.00	<50.0	-				<200
		1-1.5'	×		-	-						1,990
		2-2.5'	×		-	-	-				•	5,620
		3-3.5	×								•	3,540
		4-4.5'	×		•	•	•	•	•	•		944
SB-4	3/4/2010	4-5'	×		•		•	•	•			4,010
		.2-9	×			,	,	,	,	1	,	228
		10-11	×		1	-	-	-		1		654
		15-16'	×		-	-		-		-		<200
		20-21'	×		1	1	-	-		-	,	<200

LEA COUNTY, NEW MEXICO Jon-Bob Tank Battery COG Operating LLC. Table 1

Sample	Sample	Sample	Soil	Soil Status	TF	TPH (mg/kg)	(6)	Benzene	Toluene	Ethivbenzene	Xviene	Chloride
O	Date		In-Situ	Removed	DRO	GRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-8	2/8/2010	0-1,	×		<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<200
		1-1.5	×				-		•			481
		2-2.5'	×			•	-					5,690
SB-5	3/4/2010	2-3,	×		-					•	•	624
		4-5'	×					•		•		9,410
		.2-9	×		-							7,900
		10-11	×		1	-				1	,	361
		15-16'	×		1	,				1	,	305
		20-21	×		1	-	•			1		<200
		25-26'	×		1	-	1			1		<200
		30-31	×		1	- 15	-			1		<200

BEB (·)

Below Excavation Bottom Not Analyzed Soil excavated and hauled to disposal

COG Operating LLC. Jon-Bob Tank Battery LEA COUNTY, NEW MEXICO Table 2

Sample	Sample	Sample	Soil	Soil Status	TF	TPH (mg/kg)	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Date	Depth (ft)	In-Situ	Removed	DRO	GRO Total	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	CS-1 2/11/2011	.2	×			,	,	-	-		-	<200
CS-2	CS-2 2/11/2011	.2	×				- 1	-			-	545
CS-3	2/11/2011	.9	×			1		-			,	695
CS-4	2/11/2011	4'	×				r	-			1	337
CS-5	2/11/2011	'4'	×		,			-			,	462

Below Excavation Bottom Not Analyzed

BEB (-)





Excavation along lease road (SB-4 and SB-5)



Excavation of pasture area (SB-1, SB-2, and SB-3)





Post excavation - Backfilled to 4' for liner (Along road)



Post excavation – Backfilled to 4' for liner (Pasture area)



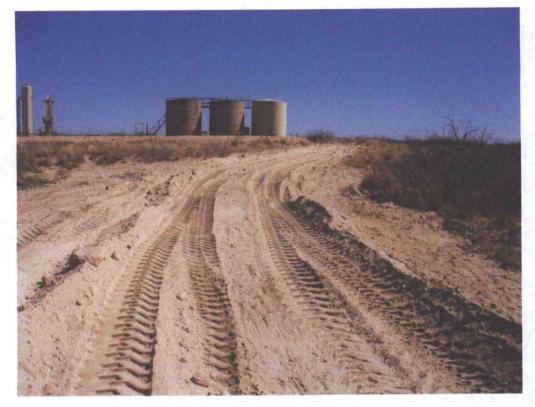


Liner installed in pasture area

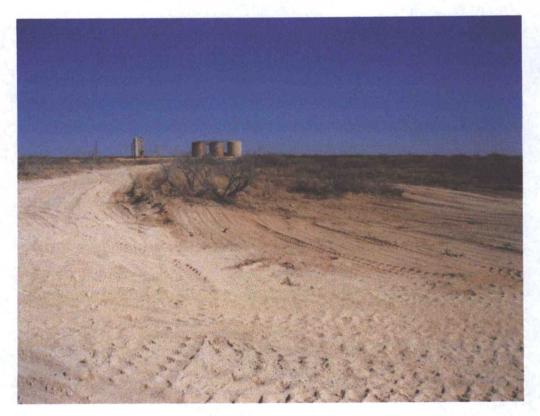


Liner installed along lease road





Post remediation and road backfilled to surface grade



Post remediation and pasture backfilled to surface grade

Water Well Data Average Depth to Groundwater (ft) COG - Jon Bob #1 **Eddy County, New Mexico**

	16	South	3	1 East			16	South	3	2 East	>-		16 S	outh	33	East	
6	5	4	3	2	1	6	5	4	3	265	1 265	6	5 180	4 15	30 3 130	148	1 14
7	8	9	10	11	12 288	7	8	9	10	11	12 215	7	8	9	10	11	12 142
18	17	16	15	14	13	18	17	16 221	15	14	13 215	18	17 182	16 180	15 175	14 143	13
19	20	21	22	23	24	19	20	21	22	23 210	24	19	20	21	22	23	24
30	29	28	27	26	25	30 30	29	210 28	27	26	25	30	29	28 190	27	26 143	25
31	32	33	34	35	36	31	32	33	34	243 35	36 260	191 31 190	32 168	33	130 34 160	35	120 36
.90	17	South	2	1 East			17.0	South	- 2	2 East	200	190	17 S	outh		East	
3	15	4	3	2	1	6	15	4 82	3	2 60	1 225	6 90	17 3	4		2 158	1 15
								Maljam	475		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
7	8	9	10	11	12	7	8	9	10	11 70 88	12	7 167	8 173	9 161	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	17 180	16	15	14	13 165
19	20	21	22	23	24	19	20	21	22	23	24	19	20 190	21	22	23 115	24
30	29	28	27	26	25	30 180 dry	29	28 158	27	26	25	30	29	28	27	26	25
31	32	33	34 271	35	36	31	32	33	34	35 SITE	36	31	32	33	34	35 155	36
	18	South	3	1 East			18 9	South	3	2 East	The sales		18 S	outh	33	East	
3	5	4	3	2	1	6	5	4 65	100	ng 2	1	6	5	4	3	2	1
	8	9	10	11	12	7 460 82	8	9	10	11	12	7	8 100	9	10 62	11	12 143
18	17	16	15	14 317	13	18	17	16 84	15	14	13	18	17 85	16	15	14 36	13
19	20	21	22	23	24	19	20 164	21	22 429	23	24	19 >140	20	21	22	23	24 195
0	29	28	27	26	25	30	29	28	27	26	25	30 35	29	28	27	26	25
31	32	33	34	35 261	36	31	32	33	34 117	35	36	31	32	33	34 177	35	36

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Field water level

New Mexico Water and Infrastructure Data System



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

RA 10175

1 28 17S 32E

614814 3631005*

EADES, ALAN G. Driller License:

Driller Name:

EADES, ALAN

Drill Start Date: 02/04/2002

Drill Finish Date:

02/04/2002

Plug Date:

Shallow

Log File Date:

03/06/2002

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

5.75

Depth Well:

158 feet

Depth Water:

Water Bearing Stratifications: Top Bottom Description

> 87 Shallow Alluvium/Basin Fill 89 Shallow Alluvium/Basin Fill Shallow Alluvium/Basin Fill 116 124

Casing Perforations:

Top Bottom

118 158

Meter Number:

5380

Meter Make:

SENSUS

Meter Serial Number: 560656282

Meter Multiplier:

10

Number of Dials:

Meter Type:

Diversion

Unit of Measure:

Gallons

Return Flow Percent:

Usage Multiplier:

Reading Frequency: Annual

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount
03/20/2002	2002	0	Α	RPT	0
05/06/2002	2002	170	Α	RPT	0.005
02/13/2003	2002	2410	Α	PRT	0.069
02/01/2005	2004	3420	A	ch	0.031

**YTD Meter Amounts: Year Amount 2002 0.074 2004 0.031

Report Date: February 22, 2010 Work Order: 10021207 Page Number: 1 of 6

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: February 22, 2010

Work Order: 10021207

Project Location: Lea Co., NM
Project Name: COG/Jon-Bob TB
Project Number: 114-6400389

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
222191	AH-1 0-1'	soil	2010-02-08	00:00	2010-02-11
222192	AH-1 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222193	AH-1 2'-2.5'	soil	2010-02-08	00:00	2010-02-11
222194	AH-2 0-1'	soil	2010-02-08	00:00	2010-02-11
222195	AH-2 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222196	AH-2 2'-2.5'	soil	2010-02-08	00:00	2010-02-11
222197	AH-2 3'-3.5'	soil	2010-02-08	00:00	2010-02-11
222198	AH-2 3.5'-4'	soil	2010-02-08	00:00	2010-02-11
222199	AH-3 0-1'	soil	2010-02-08	00:00	2010-02-11
222200	AH-3 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222201	AH-3 2'-2.5'	soil	2010-02-08	00:00	2010-02-11
222202	AH-3 3'-3.5'	soil	2010-02-08	00:00	2010-02-11
222203	AH-3 4'-4.5'	soil	2010-02-08	00:00	2010-02-11
222204	AH-3 4.5'-5'	soil	2010-02-08	00:00	2010-02-11
222205	AH-4 0-1'	soil	2010-02-08	00:00	2010-02-11
222206	AH-4 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222207	AH-4 2'-2.5'	soil	2010-02-08	00:00	2010-02-11
222208	AH-4 3'-3.5'	soil	2010-02-08	00:00	2010-02-11
222209	AH-5 0-1'	soil	2010-02-08	00:00	2010-02-11
222210	AH-5 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222211	AH-5 2'-2.5'	soil	2010-02-08	00:00	2010-02-11
222212	AH-5 3'-3.5'	soil	2010-02-08	00:00	2010-02-11
222213	AH-6 0-1'	soil	2010-02-08	00:00	2010-02-11
222214	AH-6 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222215	AH-6 2'-2.5'	soil	2010-02-08	00:00	2010-02-11
222216	AH-7 0-1'	soil	2010-02-08	00:00	2010-02-11
222217	AH-7 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222218	AH-7 2'-2.5'	soil	2010-02-08	00:00	2010-02-11
222219	AH-7 3'-3.5'	soil	2010-02-08	00:00	2010-02-11
222220	AH-7 4'-4.5'	soil	2010-02-08	00:00	2010-02-11

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
222221	AH-8 0-1'	soil	2010-02-08	00:00	2010-02-11
222222	AH-8 1'-1.5'	soil	2010-02-08	00:00	2010-02-11
222223	AH-8 2'-2.5'	soil	2010-02-08	00:00	2010-02-11

]	BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
222191 - AH-1 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	<1.00
222194 - AH-2 0-1'					< 50.0	< 1.00
222199 - AH-3 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	< 1.00
222205 - AH-4 0-1'					< 50.0	< 1.00
222209 - AH-5 0-1'					< 50.0	< 1.00
222213 - AH-6 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	< 1.00
222216 - AH-7 0-1'					< 50.0	< 1.00
222221 - AH-8 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	< 1.00

Sample: 222191 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 222192 - AH-1 1'-1.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 222193 - AH-1 2'-2.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 222194 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		1050	mg/Kg	4.00

Sample: 222195 - AH-2 1'-1.5'

Param	Flag	Result	Units	RL
Chloride		3650	mg/Kg	4.00

Report Date: February 22, 2010		Work Order: 10021207		Page Number: 3 of	
Sample: 222196 -	AH-2 2'-2.5'				
Param	Flag	Result	Units	RL	
Chloride	2 200	5760	mg/Kg	4.00	
			0, 0		
Sample: 222197 -	AH-2 3'-3.5'				
Param	Flag	Result	Units	RL	
Chloride		4050	mg/Kg	4.00	
Sample: 222198 -	AH-2 3.5'-4'				
Param	Flag	Result	Units	RL	
Chloride	1 Iug	8320	mg/Kg	4.00	
Sample: 222199 -					
Param	Flag	Result	Units	RL	
Chloride		905	mg/Kg	4.00	
Sample: 222200 -					
Param	Flag	Result	Units	RL	
Chloride		1550	mg/Kg	4.00	
Sample: 222201 -					
Param Chloride	Flag	Result 2100	Units	RL	
Chloride		2100	mg/Kg	4.00	
Sample: 222202 -	AH-3 3'-3.5'				
Param	Flag	Result	Units	RL	
Chloride		2970	mg/Kg	4.00	
Sample: 222203 -	AH-3 4'-4.5'				
			**	DI	
Param	Flag	Result	Units	RL	

Report Date: February 22, 2010		Work Order: 10021207		Page Number: 4 of 6	
Sample: 222204 -	AH-3 4.5'-5'				
Param	Flag	Result	Units	RI	
Chloride		3050	mg/Kg	4.00	
Sample: 222205 -	AH-4 0-1'				
Param	Flag	Result	Units	RI	
Chloride		<200	mg/Kg	4.00	
Sample: 222206 -	AH-4 1'-1.5'				
Param	Flag	Result	Units	RI	
Chloride		<200	mg/Kg	4.00	
Sample: 222207 -	AH-4 2'-2.5'				
Param	Flag	Result	Units	RI	
Chloride	riag	561	mg/Kg	4.00	
Sample: 222208 - Param Chloride	AH-4 3'-3.5'	Result 3470	Units mg/Kg	RL 4.00	
	3				
Sample: 222209 -	AH-5 0-1' Flag	Result	Units		
Param Chloride	Flag	Result	Units		
Param Chloride Sample: 222210 -	Flag AH-5 1'-1.5'	Result <200	Units mg/Kg	4.00	
Param Chloride	Flag	Result	Units	4.00 RI	
Param Chloride Sample: 222210 - Param Chloride	Flag AH-5 1'-1.5' Flag	Result <200	Units mg/Kg	4.00	
Param Chloride Sample: 222210 - Param Chloride Sample: 222211 -	Flag AH-5 1'-1.5' Flag AH-5 2'-2.5'	Result <200 Result <200	Units mg/Kg Units mg/Kg	4.00 RL 4.00	
Param Chloride Sample: 222210 -	Flag AH-5 1'-1.5' Flag	Result <200	Units mg/Kg	RL 4.00	

Report Date: February 22, 2010	Work Order: 10021207	Page	Page Number: 5 of 6	
Sample: 222212 - AH-5 3'-3.5'				
Param Flag	Result	Units	RL	
Chloride	<200	mg/Kg	4.00	
Sample: 222213 - AH-6 0-1'				
Param Flag	Result	Units	RI	
Chloride	<200	mg/Kg	4.00	
Sample: 222214 - AH-6 1'-1.5'				
Param Flag	Result	Units	RL	
Chloride	<200	mg/Kg	4.00	
Sample: 222215 - AH-6 2'-2.5'				
Param Flag	Result	Units	RI	
Chloride	<200	mg/Kg	4.00	
Sample: 222216 - AH-7 0-1'				
Param Flag Chloride	Result	Units	RI	
Sample: 222217 - AH-7 1'-1.5'	<200	mg/Kg	4.00	
Param Flag	Result	Units	RL	
Chloride	1990	mg/Kg	4.00	
*	7 - 0			
Sample: 222218 - AH-7 2'-2.5'				
Param Flag	Result	Units	RL	
Chloride	5620	mg/Kg	4.00	
Sample: 222219 - AH-7 3'-3.5'				
Param Flag	Result	Units	RL	
Chloride	3540	mg/Kg	4.00	

Report Date: February 22, 2010 Work Order: 10021207 Page Number: 6 of 6 Sample: 222220 - AH-7 4'-4.5' Param Flag Result Units RLChloride mg/Kg 944 4.00 Sample: 222221 - AH-8 0-1' Units Param Flag Result RLChloride <200 mg/Kg 4.00 Sample: 222222 - AH-8 1'-1.5' Param Units Flag Result RLChloride 481 mg/Kg 4.00 Sample: 222223 - AH-8 2'-2.5' Result Units RLParam Flag

5690

mg/Kg

4.00

Chloride

Report Date: March 17, 2010 Work Order: 10031013 Page Number: 1 of 5

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: March 17, 2010

Work Order: 10031013

Project Location: Lea Co., NM Project Name: COG/Jon-Bob TB Project Number: 114-6400389

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
225055	SB-1 4-5'	soil	2010-03-04	00:00	2010-03-09
225056	SB-1 6-7'	soil	2010-03-04	00:00	2010-03-09
225057	SB-1 10-11'	soil	2010-03-04	00:00	2010-03-09
225058	SB-1 15-16'	soil	2010-03-04	00:00	2010-03-09
225059	SB-1 20-21'	soil	2010-03-04	00:00	2010-03-09
225060	SB-1 25-26'	soil	2010-03-04	00:00	2010-03-09
225061	SB-2 4-5'	soil	2010-03-04	00:00	2010-03-09
225062	SB-2 6-7'	soil	2010-03-04	00:00	2010-03-09
225063	SB-2 10-11'	soil	2010-03-04	00:00	2010-03-09
225064	SB-2 15-16'	soil	2010-03-04	00:00	2010-03-09
225065	SB-2 20-21'	soil	2010-03-04	00:00	2010-03-09
225066	SB-2 25-26'	soil	2010-03-04	00:00	2010-03-09
225067	SB-3 4-5'	soil	2010-03-04	00:00	2010-03-09
225068	SB-3 6-7'	soil	2010-03-04	00:00	2010-03-09
225069	SB-3 10-11'	soil	2010-03-04	00:00	2010-03-09
225070	SB-3 15-16'	soil	2010-03-04	00:00	2010-03-09
225071	SB-3 20-21'	soil	2010-03-04	00:00	2010-03-09
225072	SB-3 25-26'	soil	2010-03-04	00:00	2010-03-09
225073	SB-4 4-5'	soil	2010-03-04	00:00	2010-03-09
225074	SB-4 6-7'	soil	2010-03-04	00:00	2010-03-09
225075	SB-4 10-11'	soil	2010-03-04	00:00	2010-03-09
225076	SB-4 15-16'	soil	2010-03-04	00:00	2010-03-09
225077	SB-4 20-21'	soil	2010-03-04	00:00	2010-03-09
225078	SB-5 2-3'	soil	2010-03-04	00:00	2010-03-09
225079	SB-5 4-5'	soil	2010-03-04	00:00	2010-03-09
225080	SB-5 6-7'	soil	2010-03-04	00:00	2010-03-09
225081	SB-5 10-11'	soil	2010-03-04	00:00	2010-03-09
225082	SB-5 15-16'	soil	2010-03-04	00:00	2010-03-09
225083	SB-5 20-21'	soil	2010-03-04	00:00	2010-03-09
225084	SB-5 25-26'	soil	2010-03-04	00:00	2010-03-09

Report Date: March 17, 2010 Work Order: 10031013 Page Number: 2 of 5 Time Date Date Sample Description Matrix Taken Taken Received 225085 SB-5 30-31' soil 2010-03-04 00:00 2010-03-09 Sample: 225055 - SB-1 4-5' Param Flag Result Units RLChloride 13400 mg/Kg 4.00 Sample: 225056 - SB-1 6-7' Flag Param Result Units RLChloride 13200 mg/Kg 4.00 Sample: 225057 - SB-1 10-11' Units Param Flag Result RLChloride 4.00 469 mg/Kg Sample: 225058 - SB-1 15-16' Param Flag Result Units RLChloride 510 mg/Kg 4.00 Sample: 225059 - SB-1 20-21' Result Units RL Param Flag 232 Chloride mg/Kg 4.00 Sample: 225060 - SB-1 25-26' Units RL Param Result Flag Chloride <200 mg/Kg 4.00

 Param
 Flag
 Result
 Units
 RL

 Chloride
 652
 mg/Kg
 4.00

Sample: 225061 - SB-2 4-5'

Report Date: March 17, 2010		Work Order: 10031013	Page	Page Number: 3 of 5	
Sample: 225062	- SB-2 6-7'				
Param	Flag	Result	Units	RI	
Chloride		2190	mg/Kg	4.00	
Sample: 225063	- SB-2 10-11'				
Param	Flag	Result	Units	RI	
Chloride		<200	mg/Kg	4.00	
Sample: 225064	- SB-2 15-16'				
Param	Flag	Result	Units	RJ	
Chloride		636	mg/Kg	4.0	
Chloride Sample: 225066	- SB-2 25-26'	<200	mg/Kg	4.00	
	Flag	Result	Units		
Param Chloride	Flag	Result <200	Units mg/Kg		
				RI 4.00	
Chloride	- SB-3 4-5'				
Chloride Sample: 225067		<200	mg/Kg	4.00 RI	
Chloride Sample: 225067 Param	- SB-3 4-5' Flag	<200 Result	mg/Kg Units	4.00	
Chloride Sample: 225067 Param Chloride Sample: 225068	- SB-3 4-5' Flag - SB-3 6-7'	<200 Result 1560	mg/Kg Units mg/Kg	4.00 RI 4.00	
Chloride Sample: 225067 Param Chloride Sample: 225068 Param	- SB-3 4-5' Flag	<200 Result	mg/Kg Units	4.0 RJ 4.0	
Chloride Sample: 225067 Param Chloride	- SB-3 4-5' Flag - SB-3 6-7' Flag	<200 Result 1560 Result	mg/Kg Units mg/Kg Units	4.00 RI 4.00	
Chloride Sample: 225067 Param Chloride Sample: 225068 Param Chloride	- SB-3 4-5' Flag - SB-3 6-7' Flag	<200 Result 1560 Result	mg/Kg Units mg/Kg Units	4.00 RI	

	n 17, 2010	Work Order: 10031013	Page	e Number: 4 of 5
Sample: 225070 -	SB-3 15-16'			
Param	Flag	Result	Units	RL
Chloride	11006	203	mg/Kg	4.00
Sample: 225071 -	SB-3 20-21'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 225072 -	SB-3 25-26'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 225073 -	SB-4 4-5'			
Param	Flag	Result	Units	RL
Chloride		4010	mg/Kg	4.00
Param	SB-4 6-7'	Result	Units mg/Kg	RL 4.00
Param		Result 228	Units mg/Kg	RL 4.00
Sample: 225074 - Param Chloride Sample: 225075 -	Flag			
Param Chloride Sample: 225075 -	Flag	228 Result	mg/Kg Units	4.00
Param Chloride Sample: 225075 -	Flag SB-4 10-11'	228	mg/Kg	4.00
Param Chloride Sample: 225075 -	Flag SB-4 10-11'	228 Result	mg/Kg Units	4.00
Param Chloride	Flag SB-4 10-11' Flag	228 Result	mg/Kg Units	4.00
Param Chloride Sample: 225075 - Param Chloride Sample: 225076 -	Flag SB-4 10-11' Flag	228 Result	mg/Kg Units	4.00
Param Chloride Sample: 225075 - Param Chloride Sample: 225076 - Param	Flag SB-4 10-11' Flag SB-4 15-16'	Result 654	mg/Kg Units mg/Kg	4.00 RL 4.00
Param Chloride Sample: 225075 - Param Chloride Sample: 225076 - Param Chloride	Flag SB-4 10-11' Flag SB-4 15-16' Flag	Result 654 Result	mg/Kg Units mg/Kg Units	4.00 RL 4.00
Param Chloride Sample: 225075 - Param Chloride	Flag SB-4 10-11' Flag SB-4 15-16' Flag	Result 654 Result	mg/Kg Units mg/Kg Units	4.00 RL 4.00

Report Date: March 17, 2010		Work Order: 10031013		Page Number: 5 of
Sample: 225078 - SB-5	5 2-3'			
Param	Flag	Result	Units	RI
Chloride		624	mg/Kg	4.00
Sample: 225079 - SB-5	6 4-5'			
Param	Flag	Result	Units	RI
Chloride		9410	mg/Kg	4.00
Sample: 225080 - SB-5	6 6-7'			
Param	Flag	Result	Units	RI
Chloride	1146	7900	mg/Kg	4.00
			0,	
Sample: 225081 - SB-5	10-11'			
Param	Flag	Result	Units	RI
Chloride	0	361	mg/Kg	4.00
Sample: 225082 - SB-5				
Param	Flag	Result	Units	RI
Chloride Sample: 225083 - SB-5	20-21'	305	mg/Kg	4.00
		Result	Tīn:	DI
Param Chloride	Flag	<200	Units mg/Kg	4.00
Cinoriae .		200	1116/1116	4.00
Sample: 225084 - SB-5	25-26'			
Param	Flag	Result	Units	RL
Chloride	Tiag	<200	mg/Kg	4.00
			0, 0	2.1 - 3 - 10 - 10 - 10 - 10 - 10 - 10 - 10
	00 011			
Sample: 225085 - SB-5	30-31			
Sample: 225085 - SB-5 Param Chloride	Flag	Result <200	Units mg/Kg	RL 4.00

Page Number: 1 of 2

Summary Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street Midland, TX 79705

Report Date: February 11, 2011

Work Order: 11021101

Project Location: Lea County, NM

COG/John-Bob TB

Project Name: Project Number: 114-6400389

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
257143	CS-1 7' Bottom Hole	soil	2011-02-10	00:00	2011-02-11
257144	CS-2 7' Bottom Hole	soil	2011-02-10	00:00	2011-02-11
257145	CS-3 6' Bottom Hole	soil	2011-02-10	00:00	2011-02-11
257146	CS-4 4' Bottom Hole	soil	2011-02-10	00:00	2011-02-11
257147	CS-5 4' Bottom Hole	soil	2011-02-10	00:00	2011-02-11

Sample: 257143 - CS-1 7' Bottom Hole

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 257144 - CS-2 7' Bottom Hole

Param	Flag	Result	Units	RL
Chloride		545	mg/Kg	4.00

Sample: 257145 - CS-3 6' Bottom Hole

Param	Flag	Result	Units	RL
Chloride		695	mg/Kg	4.00

Sample: 257146 - CS-4 4' Bottom Hole

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: February 11, 2011

Work Order: 11021101

Page Number: 2 of 2

Param	Flag	Result	Units	RL
Chloride		337	mg/Kg	4.00

Sample: 257147 - CS-5 4' Bottom Hole

Param	Flag	Result	Units	RL
Chloride		462	mg/Kg	4.00