SITE INFORMATION

Report Type: Closure Report

General Site Information:						
Site:	SRO State Unit #10 H Tank Battery					
Company:	COG Operating LLC					
Section, Township and Range	Unit D	Sec 3	T26S	R28E		
Lease Number:	(API#) 30-015-38072					
County:	Eddy County					
GPS:	32.0774			104.0527		
Surface Owner:	State					
Mineral Owner:						
Directions:	From the intersection of Hwy 296 (Black River Road) and Hwy 285 in Malaga, travel south for 10.74 miles. Turn right on the lease road and travel southwest for approximatly 0.45 miles. Turn right and travel west for approximatly 0.80 miles and turn back to the north for 1.0 miles. The battery will be on the right to the east.					

Release Data:	
Date Released:	2/8/2013
Type Release:	Produced Water
Source of Contamination:	Discharge Hose
Fluid Released:	200 bbls
Fluids Recovered:	180 bbls

Official Communication:			
Name:	Robert McNeill		Ike Tavarez
Company:	COG Operating, LLC		Tetra Tech
Address:	One Concho Center		4000 N. Big Spring
	600 W. Illinois Ave.		Suite 401
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		(432) 682-4559
Fax:	(432) 684-7137		
Email:	rmcneill@concho.com		ike.tavarez@tetratech.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	20	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:	**20**	

Acceptable Soil RRAL (mg/kg)		
Benzene	***Total BTEX***	***TPH***
10	50	100

TETRA TECH

November 18, 2013

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
811S. First Street
Artesia, New Mexico 88210

Re: Closure Report for the COG Operating LLC., SRO State Unit #10 H Tank Battery, Section 3, Township 26 South, Range 28 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC., (COG) to assess a spill from the SRO State Unit #10 H Tank Battery, located in Unit D, Section 3, Township 26 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.0774°, W 104.0527°. 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 February 9, 2013, and released approximately for two hundred (200) barrels of produced water from a discharge hose. One hundred and eighty (180) barrels of produced water were recovered. The leak was caused by discharge hose coming loose and causing a fluid to release of fluid. COG has replaced the hose with a metal line to prevent a recurrence. The release impacted the area south of the tank battery and migrated east into the pasture. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 3. According to the NMOCD groundwater map, the average depth to groundwater in this area is approximately 50' below surface. The groundwater data is shown in Appendix A.

Tetra Tech
4000 North Big Spring, Suite 401, Midland, TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

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 100 mg/kg.

Soil Assessment and Analytical Results

Auger holes

On May 2, 2013, Tetra Tech personnel inspected and sampled the spill area. Fourteen (14) auger holes (AH-1 through AH-14) were installed using a stainless steel hand auger to assess the impacted soils. Due to the dense surface on the pad, auger holes could not installed on the pad. 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 C. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples exceeded the RRAL for TPH or BTEX. A chloride impact was detected in all auger holes, with the exception of AH-12. A maximum chloride level of 12,000 mg/kg was detected in AH-8 at a depth of 0-1.0' and declined to 480 mg/kg at 3-3.5' below surface. The auger holes (AH-2, AH-3, AH-5, AH-6, AH-7, AH-8 and AH-9) showed vertical delineation, with chloride concentrations of 424 mg/kg (2-2.5'), 380 mg/kg (3-3.5'), 315 mg/kg (3-3.5'), 145 mg/kg (2-2.5'), <20.0 mg/kg (2-2.5'), 480 mg/kg (3-3.5') and 536 mg/kg (6-6.5') respectively.

The remaining auger holes (AH-1, AH-4, AH-10, AH-11 and AH-14) showed a deeper chloride impact to the subsurface soils and were not vertically defined, with bottom auger hole samples of 1,890 mg/kg (6.5-7.0'), 4,360 mg/kg (6-6.5'), 1,660 mg/kg (5-5.5'), 4,580 mg/kg (6-6.5') and 3,650 mg/kg (5-5.5'), respectively.

Soil Borings

On May 2, 2013, Tetra Tech supervised the installation of fourteen (14) soil borings (SB-1 through SB-14) using an air rotary drilling rig to assess the soils. Soil borings (SB-1 through SB-9) were installed on the pad to penetrate the dense pad material. The remaining soil borings were installed in the pasture to vertically delineate the chloride impacts at the auger hole locations. The soil borings were installed to a maximum depth of 40.0' below surface. Copies of laboratory analysis

chain-of-custody documentation are included in Appendix C. The soil boring results are summarized in Table 1 and shown on Figure 3.

Referring to Table 1, elevated chloride concentrations were detected in all of the soil borings, with the exception of SB-11 and SB-12. Soil borings (SB-11 and SB-12) did not show a significant impact to the soils and appear to have migrated down a narrow path. The areas on the pad at SB-2, SB-3, SB-5 and SB-6 were not vertically defined. However, majority of the bottom samples were near background concentrations. During the field screening (chlorides), we encountered soil interferences with the field chloride testing. The remaining soil borings were vertically defined and significantly declined with depths between 4.0' to 25.0' below surface.

Background samples were collected at the site for chloride evaluation. One auger hole and a soil boring were installed and showed a chloride high of 959 mg/kg at 25' below surface. The remaining samples ranged from <20 mg/kg to 601 mg/kg.

Remedial Actions and Conclusion

On October 10, 2013, Tetra Tech began supervising the excavation of contaminated soils. The excavated areas and depths are highlighted (green) on Table 1 and shown on Figure 4. Based on the assessment data, AH-2, AH-3, AH-5 through AH-8, and AH-13 were excavated to approximately 2.0' to 3.0' below surface. Auger holes AH-9, AH-12, and AH-14 were excavated to a depth of approximately 4.0', while AH-4 and AH-11 were excavated to 6.0' below surface. For safety concerns, the areas on the pad (SB-1 through SB-8) were excavated to a depth of approximately 3.0' below surface and capped the excavation bottom with a 40mil plastic liner to cap any remaining chloride residue on the pad. Due to cave ins and safety concerns, AH-1 was excavated to a depth of 6.0' below surface and also capped with a 40mil plastic liner.

Once excavated to the appropriate depths, the excavated areas were backfilled with clean material and brought to surface grade. Approximately 3,058 yards of the excavated soils were transported to proper disposal.

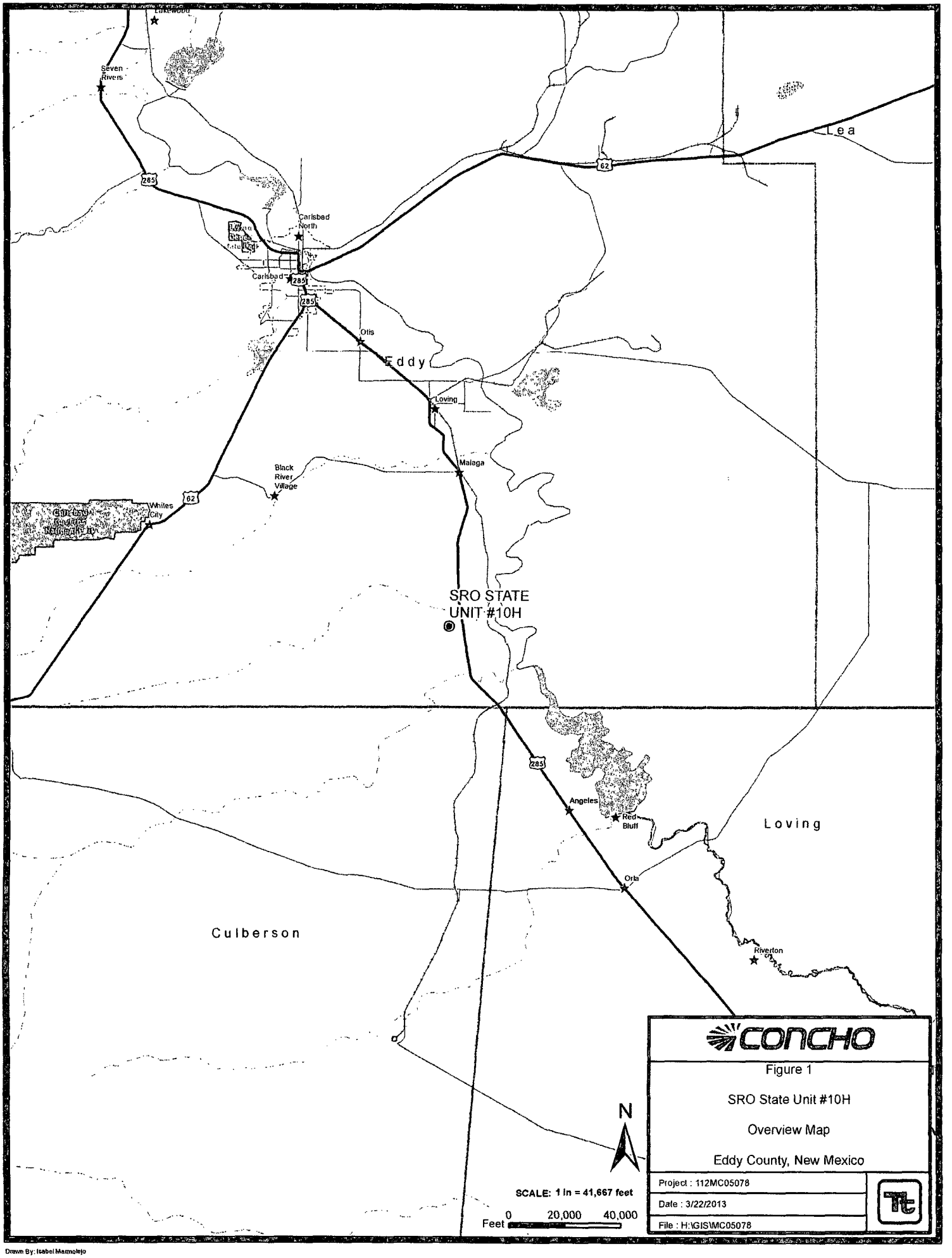
Based on remedial actions taken, COG requests closure of this site. The Final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities for this site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

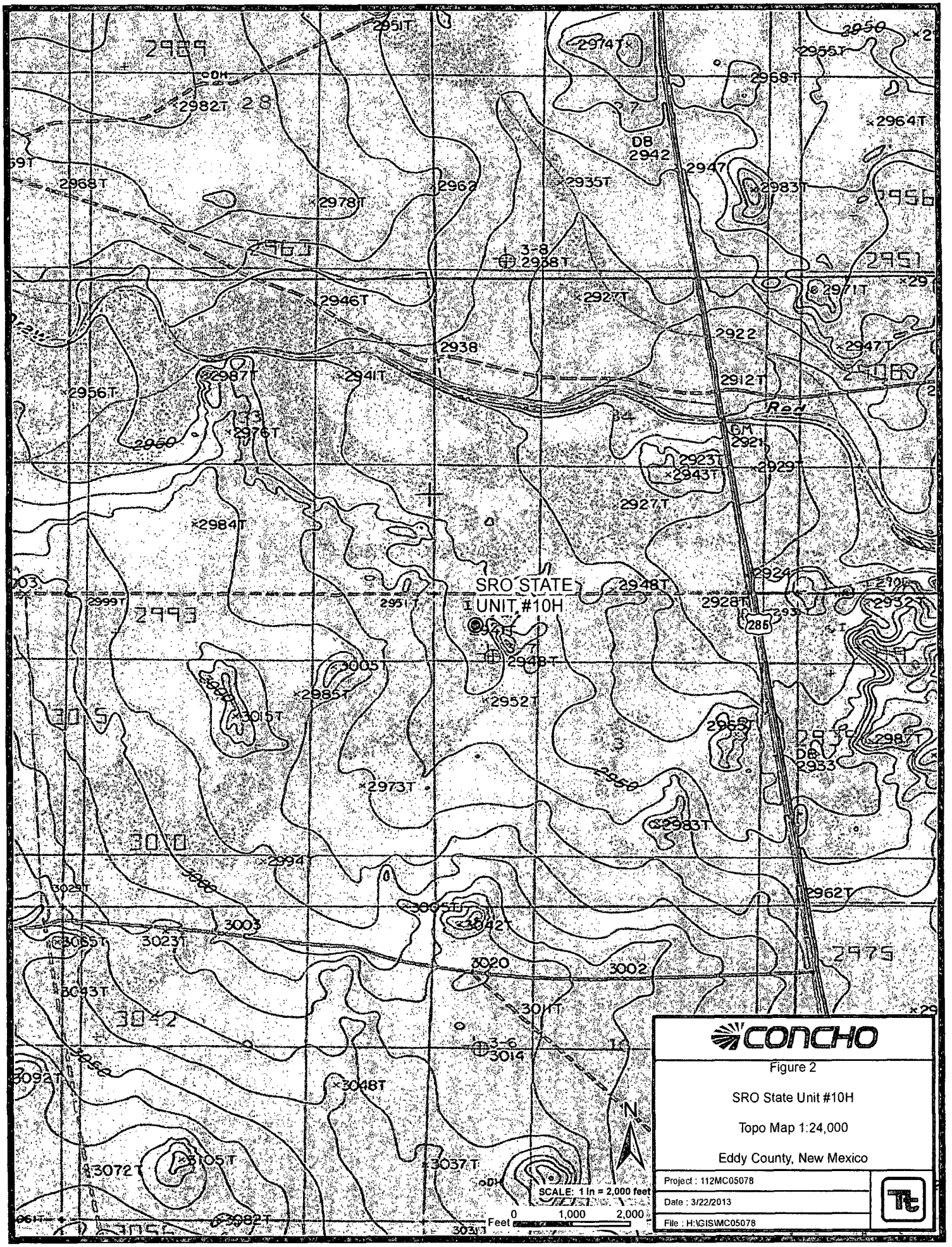
Marcus Kujawski
Staff Scientist

cc: Robert McNeill – COG

Figures



Drawn By: Isabel Mamolejo



CONCHO

Figure 2

SRO State Unit #10H

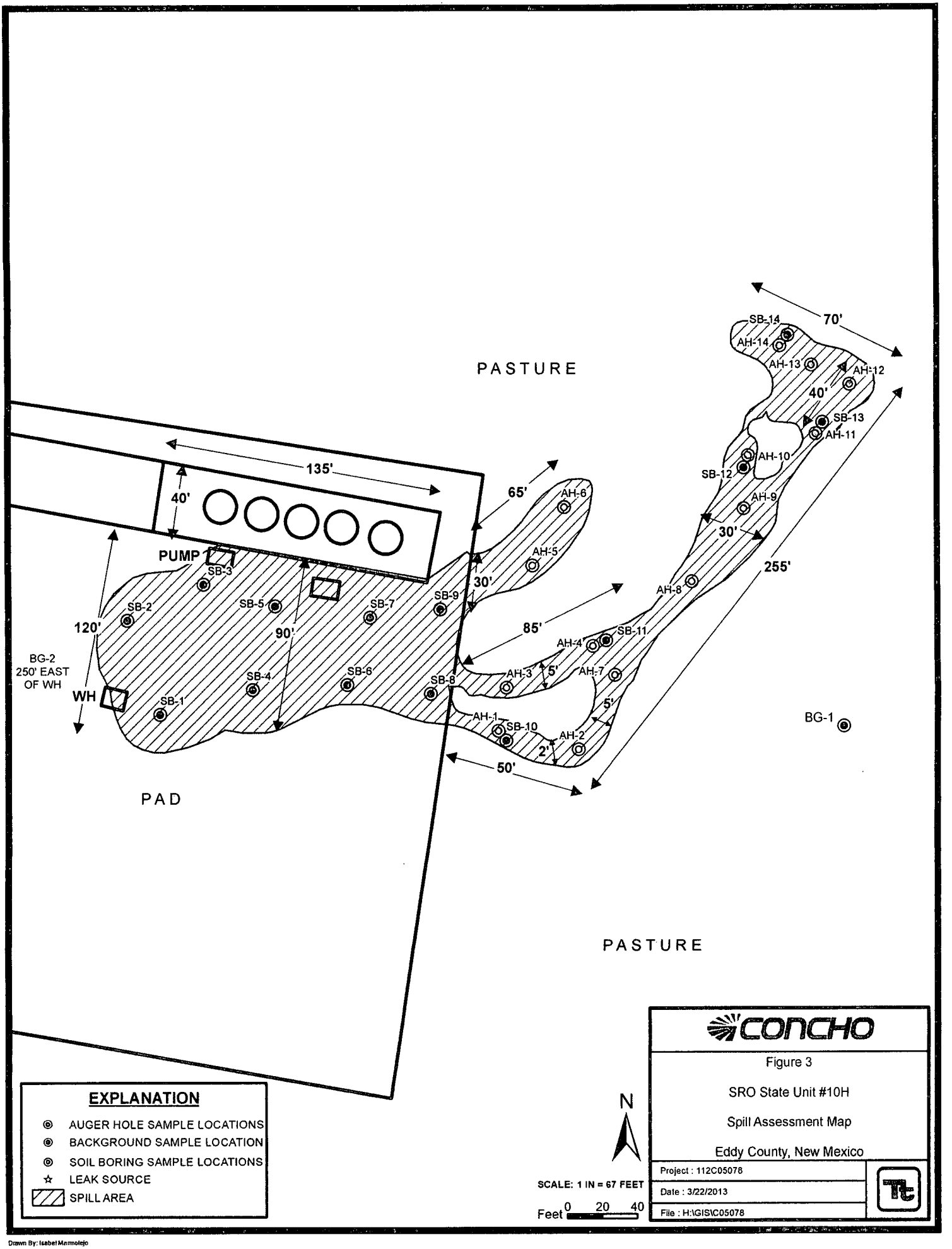
Topo Map 1:24,000

Eddy County, New Mexico

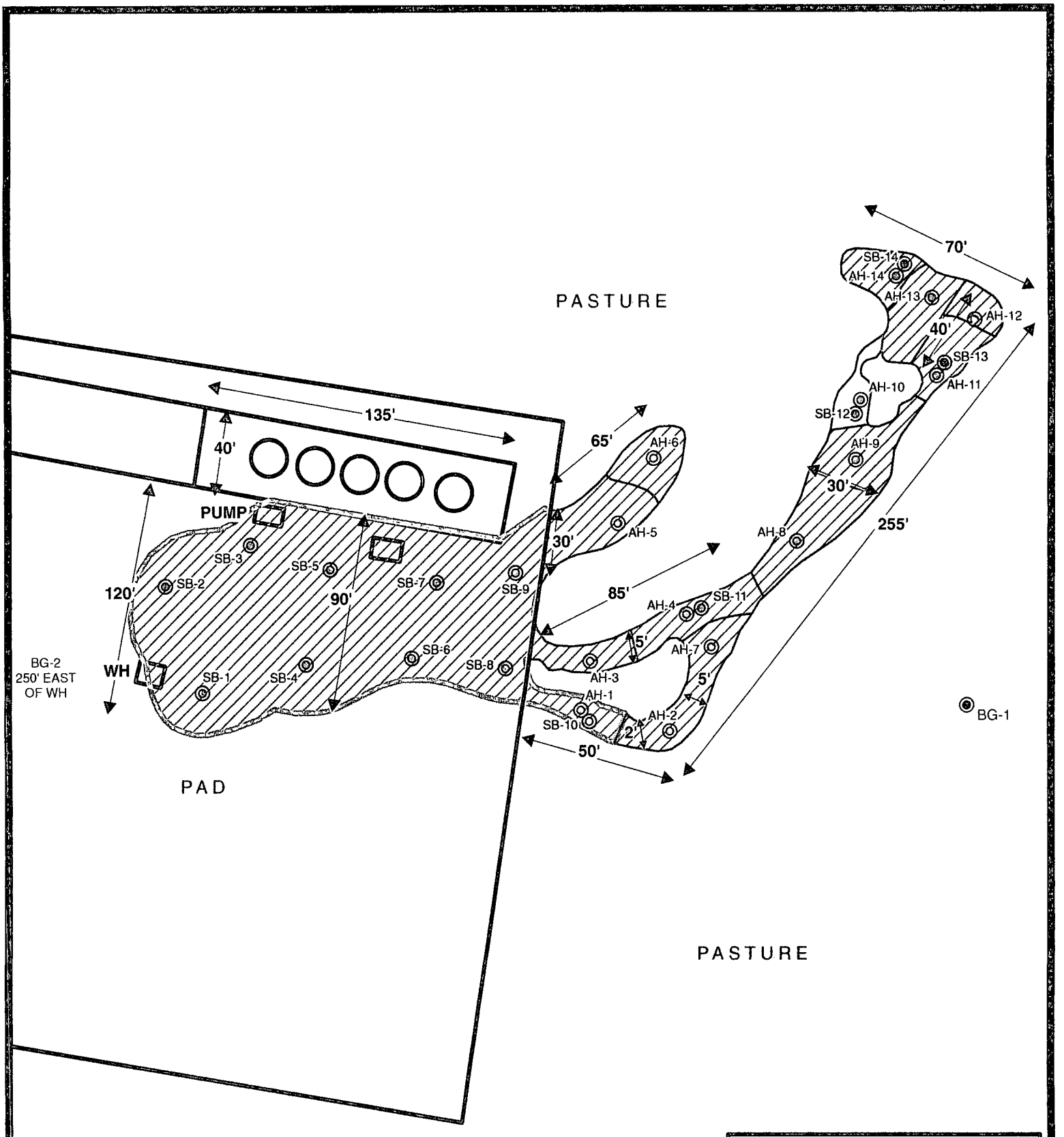
Project : 112MC05078	
Date : 3/22/2013	
File : H:\GIS\MC05078	

Drawn By: Isabel Mamolejo


PASTURE
PAD
PASTURE
AH-1
AH-2
AH-3
AH-4
AH-5
AH-6
AH-7
AH-8
AH-9
AH-10
AH-11
AH-12
AH-13
AH-14
BG-1
135'
40'
120'
90'
65'
30'
85'
5'
5'
50'
30'
255'
70'
40'
N
EXPLANATION
AUGER HOLE SAMPLE LOCATIONS
BACKGROUND SAMPLE LOCATION
LEAK SOURCE
SPILL AREA
CONCHO
Figure 3
SRO State Unit #10H
Spill Assessment Map
Eddy County, New Mexico
Project : 112MC05078
Date : 3/22/2013
File : H:\GIS\MC05078
Drawn By: Isabel Marmolejo



Drawn By: Isabel Manmolejo



EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BACKGROUND SAMPLE LOCATION
- SOIL BORING SAMPLE LOCATIONS
- 2' DEEP EXCAVATION AREAS
- 3' DEEP EXCAVATION AREAS
- 4' DEEP EXCAVATION AREAS
- 6' DEEP EXCAVATION AREAS
- LINED AREAS

N

SCALE: 1 IN = 67 FEET

Feet 0 20 40

CONCHO

Figure 4

SRO State Unit #10H

Excavation Areas & Depths Map

Eddy County, New Mexico

Project : 112C05078

Date : 7/30/2013

File : H:\GIS\C05078

Drawn By: Alan McClanahen

Tables

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
Pasture Area														
AH-1	3/14/2013	0-1	-		X	12.8	<50.0	12.8	<0.0200	<0.0200	<0.0200	0.197	0.197	13,100
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	10,900
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	8,760
	"	3-3.5	-		X	-	-	-	-	-	-	-	-	6,830
	"	4-4.5	-		X	-	-	-	-	-	-	-	-	8,190
	"	5-5.5	-		X	-	-	-	-	-	-	-	-	3,870
	"	6-6.5	-	X		-	-	-	-	-	-	-	-	2,020
	"	6.5-7	-	X		-	-	-	-	-	-	-	-	1,890
SB-10	5/6/2013	0-1	-		X	-	-	-	-	-	-	-	-	9,580
	"	2-3	-		X	-	-	-	-	-	-	-	-	23,700
	"	4-5	-		X	-	-	-	-	-	-	-	-	7,630
	"	6-7	-		X	-	-	-	-	-	-	-	-	4,520
	"	9-10	-	X		-	-	-	-	-	-	-	-	1,890
	"	14-15	-	X		-	-	-	-	-	-	-	-	3,940
	"	19-20	-	X		-	-	-	-	-	-	-	-	438
	"	24-25	-	X		-	-	-	-	-	-	-	-	<20.0
	"	29-30	-	X		-	-	-	-	-	-	-	-	112
	"	39-40	-	X		-	-	-	-	-	-	-	-	<20.0
AH-2	3/14/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	2,830
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	2,210
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	424
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	405
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	102
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	254

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-3	3/14/2013	0-1			X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	5,190
	"	1-1.5			X	-	-	-	-	-	-	-	-	4,800
	"	2-2.5			X	-	-	-	-	-	-	-	-	1,840
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	380
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	391
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	328
AH-4	3/14/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,990
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	1,980
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	7,150
	"	3-3.5	-		X	-	-	-	-	-	-	-	-	6,740
	"	4-4.5	-		X	-	-	-	-	-	-	-	-	7,440
	"	5-5.5	-		X	-	-	-	-	-	-	-	-	4,540
	"	6-6.5	-		X	-	-	-	-	-	-	-	-	4,360
SB-11	5/6/2013	0-1	-		X	-	-	-	-	-	-	-	-	609
	"	2-3	-		X	-	-	-	-	-	-	-	-	1,030
	"	4-5	-		X	-	-	-	-	-	-	-	-	358
	"	6-7	-		X	-	-	-	-	-	-	-	-	53.9
	"	9-10	-	X		-	-	-	-	-	-	-	-	68.6
AH-5	3/14/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,410
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	5,370
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	4,770
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	315
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	<20.0

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-6	3/15/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	3,130
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	1,490
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	145
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	6-6.5	-	X		-	-	-	-	-	-	-	-	<20.0
AH-7	3/15/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,020
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	2,445
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	260
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	135
	"	6-6.5	-	X		-	-	-	-	-	-	-	-	95.1
AH-8	3/15/2013	0-1	-		X	15.6	<50.0	15.6	<0.0200	<0.0200	<0.0200	0.0786	0.0786	12,000
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	3,860
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	1,500
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	480
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	278
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	136
	"	6-6.5	-	X		-	-	-	-	-	-	-	-	197

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-9	3/15/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	11,700
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	11,300
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	7,890
	"	3-3.5	-		X	-	-	-	-	-	-	-	-	3,690
	"	4-4.5	-		X	-	-	-	-	-	-	-	-	1,660
	"	5-5.5	-		X	-	-	-	-	-	-	-	-	2,160
	"	6-6.5	-	X		-	-	-	-	-	-	-	-	536
AH-10	3/15/2013	0-1	-	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	970
	"	1-1.5	-	X		-	-	-	-	-	-	-	-	378
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	352
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	388
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	465
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	1,660
SB-12	5/6/2013	0-1	-	X		-	-	-	-	-	-	-	-	98
	"	2-3	-	X		-	-	-	-	-	-	-	-	<20.0
	"	4-5	-	X		-	-	-	-	-	-	-	-	34.3
	"	6-7	-	X		-	-	-	-	-	-	-	-	1,130
	"	9-10	-	X		-	-	-	-	-	-	-	-	324
	"	14-15	-	X		-	-	-	-	-	-	-	-	176
	"	19-20	-	X		-	-	-	-	-	-	-	-	98.4
	"	24-25	-	X		-	-	-	-	-	-	-	-	59.1

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-11	3/15/2013	0-1	-	-	X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	8,990
	"	1-1.5	-	-	X	-	-	-	-	-	-	-	-	7,300
	"	2-2.5	-	-	X	-	-	-	-	-	-	-	-	8,570
	"	3-3.5	-	-	X	-	-	-	-	-	-	-	-	8,220
	"	4-4.5	-	-	X	-	-	-	-	-	-	-	-	6,780
	"	5-5.5	-	-	X	-	-	-	-	-	-	-	-	4,580
	"	6-6.5	-	-	X	-	-	-	-	-	-	-	-	4,580
SB-13	5/7/2013	0-1	-	-	X	-	-	-	-	-	-	-	-	12,300
	"	2-3	-	-	X	-	-	-	-	-	-	-	-	8,760
	"	4-5	-	-	X	-	-	-	-	-	-	-	-	5,750
	"	6-7	-	-	X	-	-	-	-	-	-	-	-	3,400
	"	9-10	-	X		-	-	-	-	-	-	-	-	379
	"	14-15	-	X		-	-	-	-	-	-	-	-	925
	"	19-20	-	X		-	-	-	-	-	-	-	-	354
	"	24-25	-	X		-	-	-	-	-	-	-	-	98.4
AH-12	3/15/2013	0-1	-	-	X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	7,780
	"	1-1.5	-	-	X	-	-	-	-	-	-	-	-	7,520
	"	2-2.5	-	-	X	-	-	-	-	-	-	-	-	5,240
	"	3-3.5	-	-	X	-	-	-	-	-	-	-	-	2,150
	"	4-4.5	-	-	X	-	-	-	-	-	-	-	-	1,550
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	787

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-13	3/15/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	5,990
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	5,350
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	1,540
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	361
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	20.0
AH-14	3/15/2013	0-1	-		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,080
	"	1-1.5	-		X	-	-	-	-	-	-	-	-	5,180
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	3,900
	"	3-3.5	-		X	-	-	-	-	-	-	-	-	4,240
	"	4-4.5	-		X	-	-	-	-	-	-	-	-	6,540
	"	5-5.5	-		X	-	-	-	-	-	-	-	-	3,650
SB-14	5/7/2013	0-1	-		X	-	-	-	-	-	-	-	-	20,200
	"	2-3	-		X	-	-	-	-	-	-	-	-	8,640
	"	4-5	-		X	-	-	-	-	-	-	-	-	944
	"	6-7	-	X		-	-	-	-	-	-	-	-	259
	"	9-10	-	X		-	-	-	-	-	-	-	-	910
	"	14-15	-	X		-	-	-	-	-	-	-	-	557
	"	19-20	-	X		-	-	-	-	-	-	-	-	73.4
	"	24-25	-	X		-	-	-	-	-	-	-	-	88.0

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
Pad Area														
SB-1	5/2/2013	0-1		X		-	-	-					-	6,380
	"	2-3		X		-	-	-					-	3,850
	"	4-5	-	X		-	-	-	-	-	-	-	-	2,910
	"	6-7	-	X		-	-	-	-	-	-	-	-	2,320
	"	9-10	-	X		-	-	-	-	-	-	-	-	1,340
	"	14-15	-	X		-	-	-	-	-	-	-	-	1,600
	"	19-20	-	X		-	-	-	-	-	-	-	-	1,280
	"	24-25	-	X		-	-	-	-	-	-	-	-	1,240
	"	29-30	-	X		-	-	-	-	-	-	-	-	<20.0
	"	39-40	-	X		-	-	-	-	-	-	-	-	<20.0
SB-2	5/2/2013	0-1		X		-	-	-					-	14,800
	"	2-3		X		-	-	-					-	14,500
	"	4-5	-	X		-	-	-	-	-	-	-	-	6,900
	"	6-7	-	X		-	-	-	-	-	-	-	-	2,170
	"	9-10	-	X		-	-	-	-	-	-	-	-	2,030
	"	14-15	-	X		-	-	-	-	-	-	-	-	1,850
	"	19-20	-	X		-	-	-	-	-	-	-	-	1,830
	"	24-25	-	X		-	-	-	-	-	-	-	-	1,360

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
SB-3	5/2/2013	0-1	-	X		-	-	-	-	-	-	-	-	18,600
	"	2-3	-	X		-	-	-	-	-	-	-	-	17,600
	"	4-5	-	X		-	-	-	-	-	-	-	-	1,320
	"	6-7	-	X		-	-	-	-	-	-	-	-	957
	"	9-10	-	X		-	-	-	-	-	-	-	-	2,420
SB-4	5/2/2013	0-1	-	X		-	-	-	-	-	-	-	-	10,800
	"	2-3	-	X		-	-	-	-	-	-	-	-	9,110
	"	4-5	-	X		-	-	-	-	-	-	-	-	1,710
	"	6-7	-	X		-	-	-	-	-	-	-	-	741
	"	9-10	-	X		-	-	-	-	-	-	-	-	1,210
	"	14-15	-	X		-	-	-	-	-	-	-	-	961
	"	19-20	-	X		-	-	-	-	-	-	-	-	947
SB-5	5/6/2013	0-1	-	X		-	-	-	-	-	-	-	-	25,100
	"	2-3	-	X		-	-	-	-	-	-	-	-	3,570
	"	4-5	-	X		-	-	-	-	-	-	-	-	738
	"	6-7	-	X		-	-	-	-	-	-	-	-	778
	"	9-10	-	X		-	-	-	-	-	-	-	-	1,200

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
SB-6	5/6/2013	0-1	-	X		-	-	-	-	-	-	-	-	12,100
	"	2-3	-	X		-	-	-	-	-	-	-	-	8,400
	"	4-5	-	X		-	-	-	-	-	-	-	-	69.4
	"	6-7	-	X		-	-	-	-	-	-	-	-	961
	"	9-10	-	X		-	-	-	-	-	-	-	-	871
	"	14-15	-	X		-	-	-	-	-	-	-	-	1,120
SB-7	5/3/2013	0-1	-	X		-	-	-	-	-	-	-	-	7,800
	"	2-3	-	X		-	-	-	-	-	-	-	-	1,950
	"	4-5	-	X		-	-	-	-	-	-	-	-	603
	"	6-7	-	X		-	-	-	-	-	-	-	-	238
SB-8	5/6/2013	0-1	-	X		-	-	-	-	-	-	-	-	2,620
	"	2-3	-	X		-	-	-	-	-	-	-	-	3,660
	"	4-5	-	X		-	-	-	-	-	-	-	-	1,340
	"	6-7	-	X		-	-	-	-	-	-	-	-	54.2
	"	9-10	-	X		-	-	-	-	-	-	-	-	241
SB-9	5/3/2013	0-1	-	X		-	-	-	-	-	-	-	-	745
	"	2-3	-	X		-	-	-	-	-	-	-	-	991
	"	4-5	-	X		-	-	-	-	-	-	-	-	181
	"	6-7	-	X		-	-	-	-	-	-	-	-	329
	"	9-10	-	X		-	-	-	-	-	-	-	-	<20.0

Table 1
COG Operating LLC.
SRO State Unit #10 H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
Background Sampling														
Background	3/14/2013	0-1	-	X		-	-	-	-	-	-	-	-	29.3
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	34.2
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	<20.0
	3/15/2013	4-4.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	6-6.5	-	X		-	-	-	-	-	-	-	-	<20.0
Background	5/2/2013	0-1	-	X		-	-	-	-	-	-	-	-	<20.0
	"	5	-	X		-	-	-	-	-	-	-	-	<20.0
	"	10	-	X		-	-	-	-	-	-	-	-	601
	"	15	-	X		-	-	-	-	-	-	-	-	159
	"	20	-	X		-	-	-	-	-	-	-	-	477
	"	25	-	X		-	-	-	-	-	-	-	-	959
	"	30	-	X		-	-	-	-	-	-	-	-	49.2
	"	35	-	X		-	-	-	-	-	-	-	-	<20.0

(-) Not Analyzed

(BEB) Below Excavation Bottom

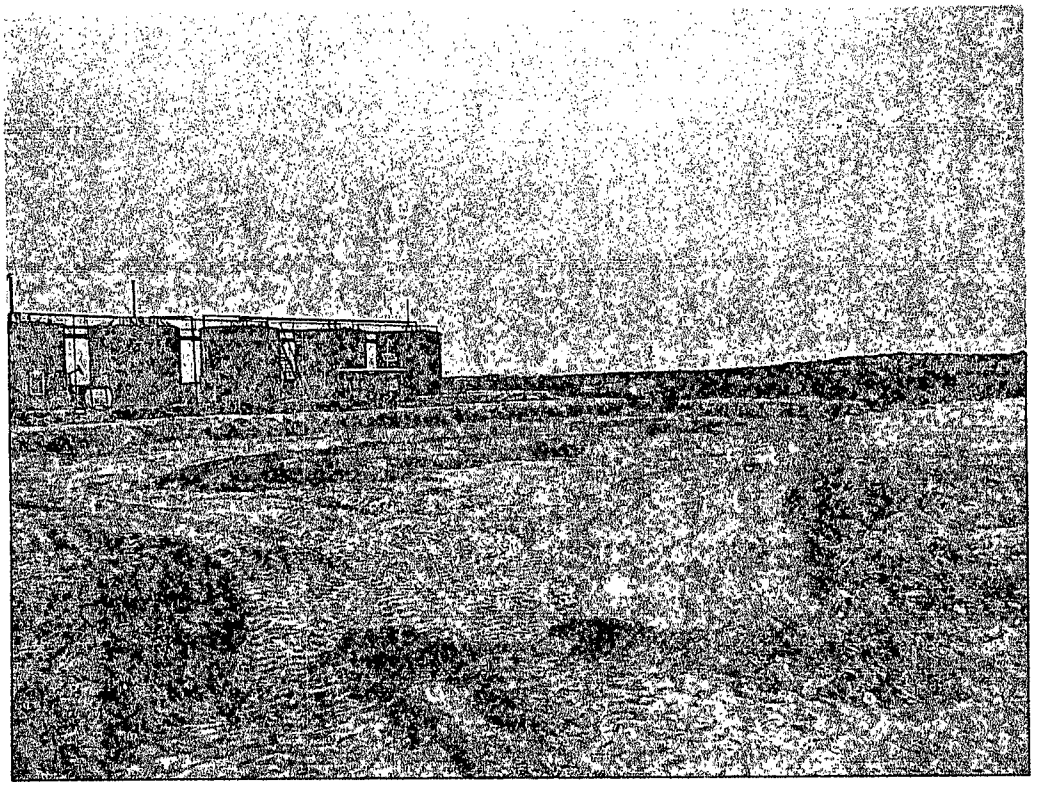
Plasitc Liner Installed

Excavation Depths

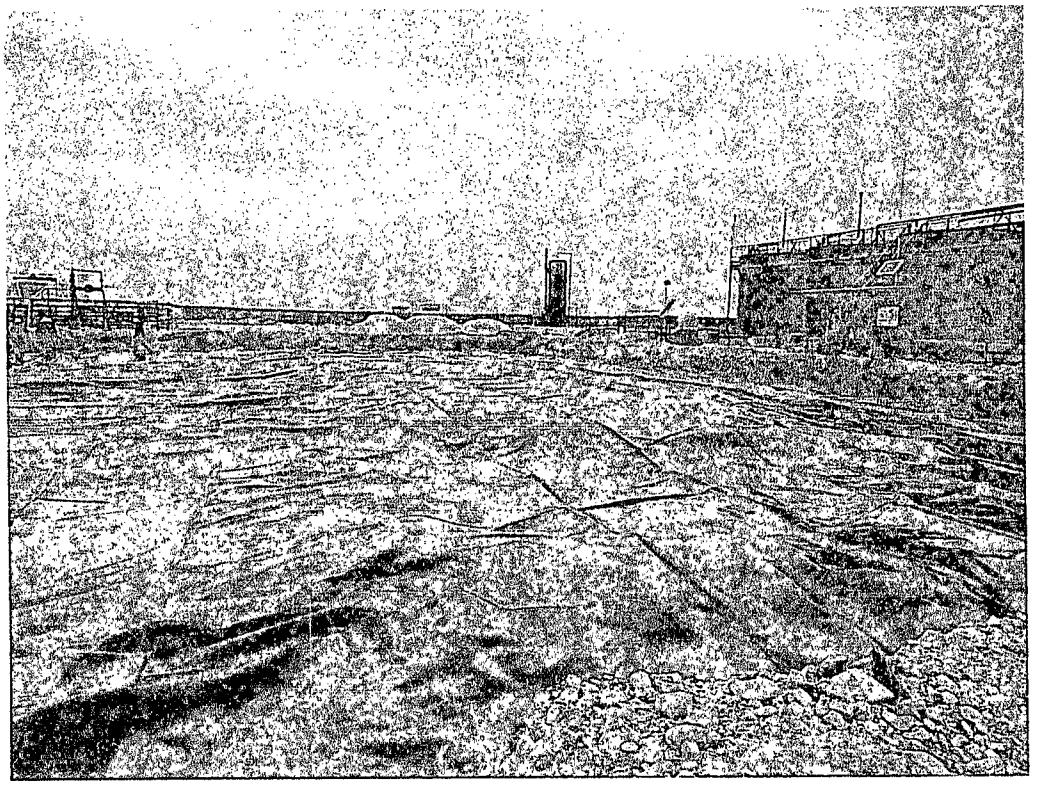
Photos

COG Operating LLC
SRO State Unit #10H
Eddy County, New Mexico

TETRA TECH



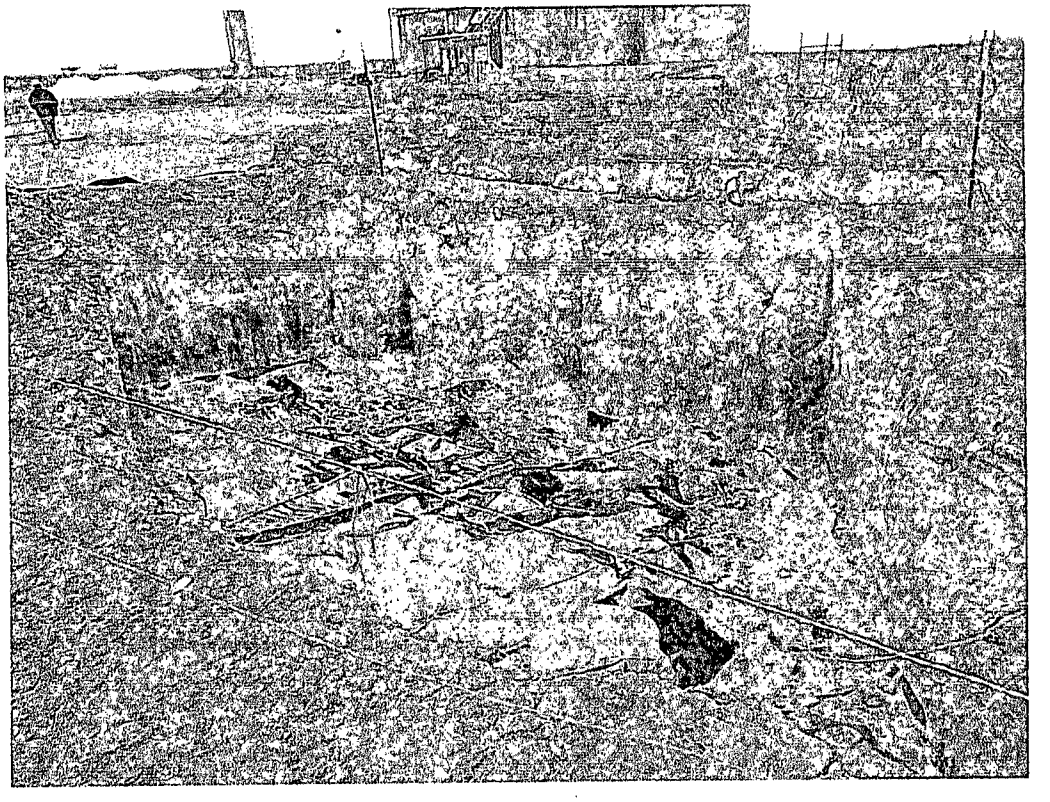
View North – SB-2 through SB-8 at 3.0'



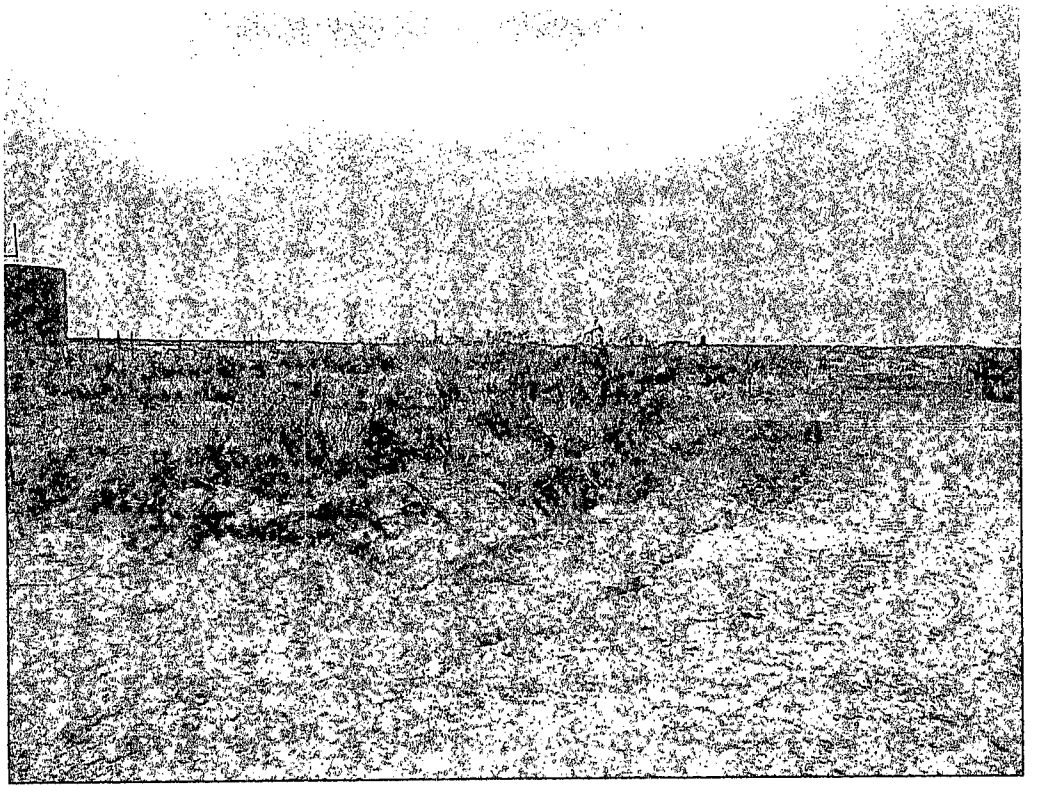
View Northeast – SB-2 through SB-8 lined

COG Operating LLC
SRO State Unit #10H
Eddy County, New Mexico

TETRA TECH



View Northeast – AH-1 at 6.0' and lined

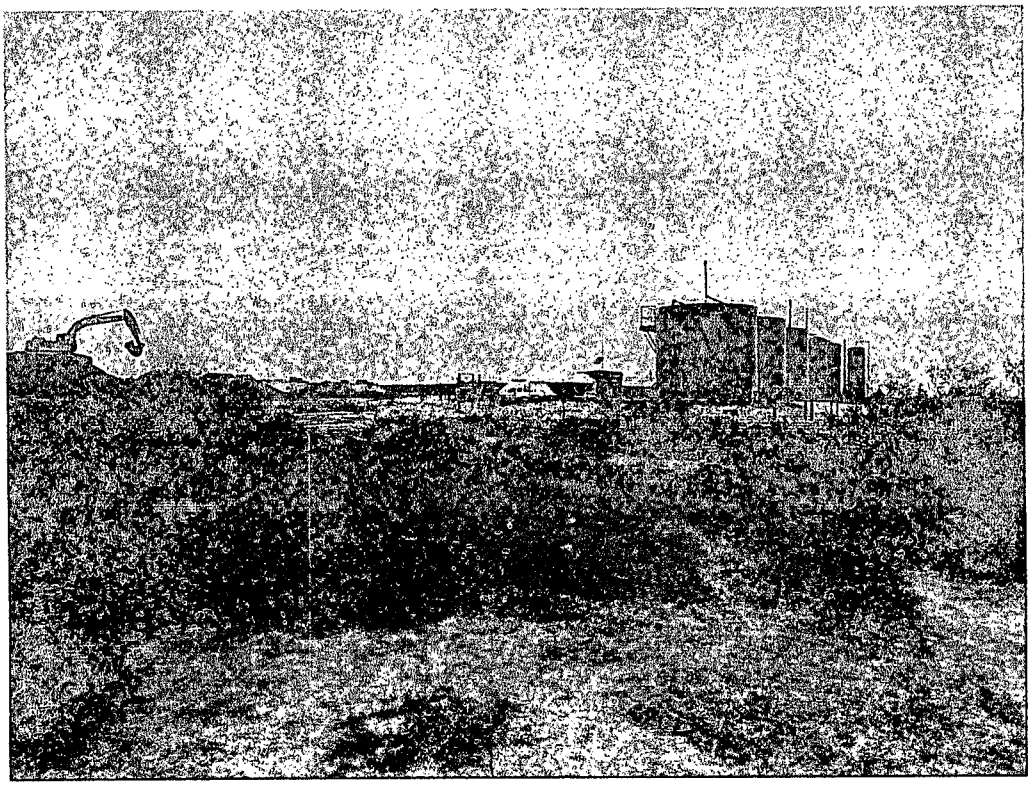


View North – AH-2 and AH-7 areas at 2.0'

COG Operating LLC
SRO State Unit #10H
Eddy County, New Mexico

TETRA TECH

View East – AH-3, AH-4, and AH-8 areas

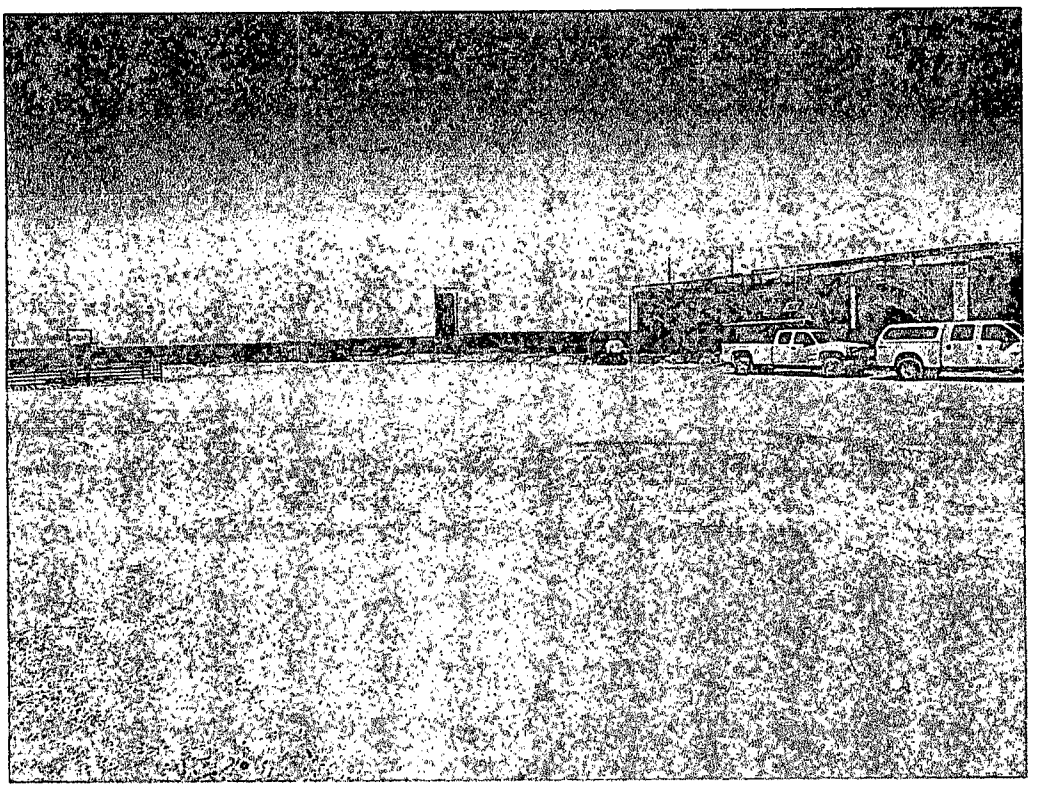


View East – AH-5 at 3.0' and AH-6 at 2.0'

COG Operating LLC
SRO State Unit #10H
Eddy County, New Mexico

TETRA TECH

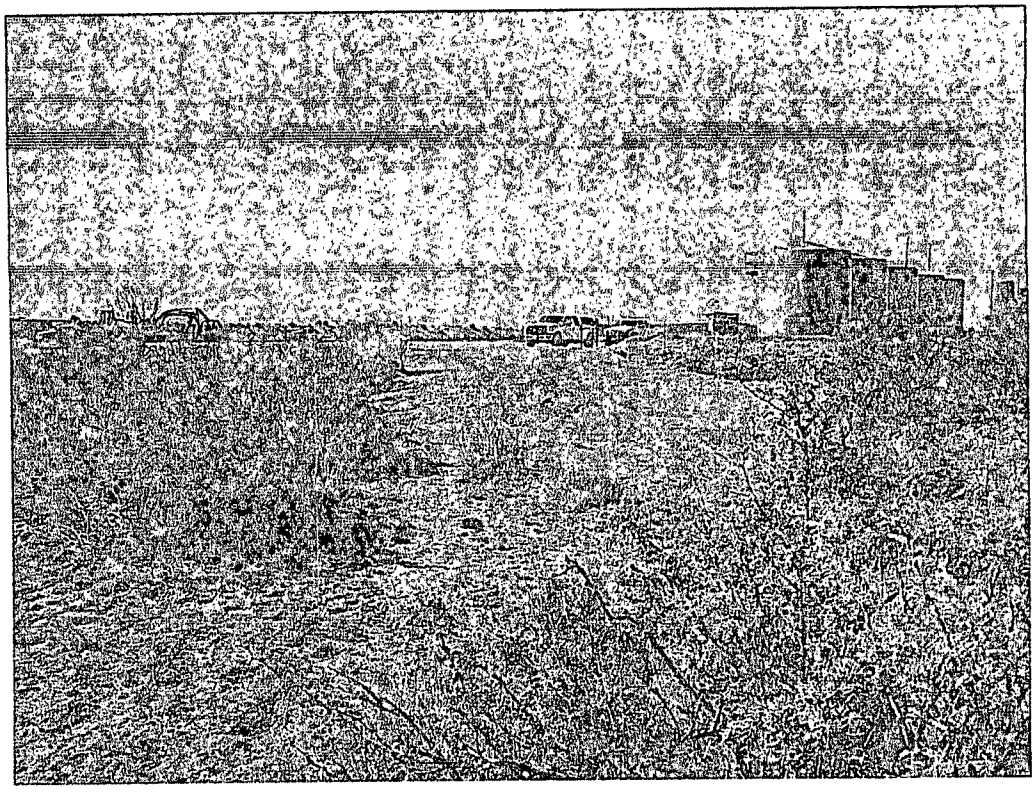
View East – AH-9 through AH-14 areas



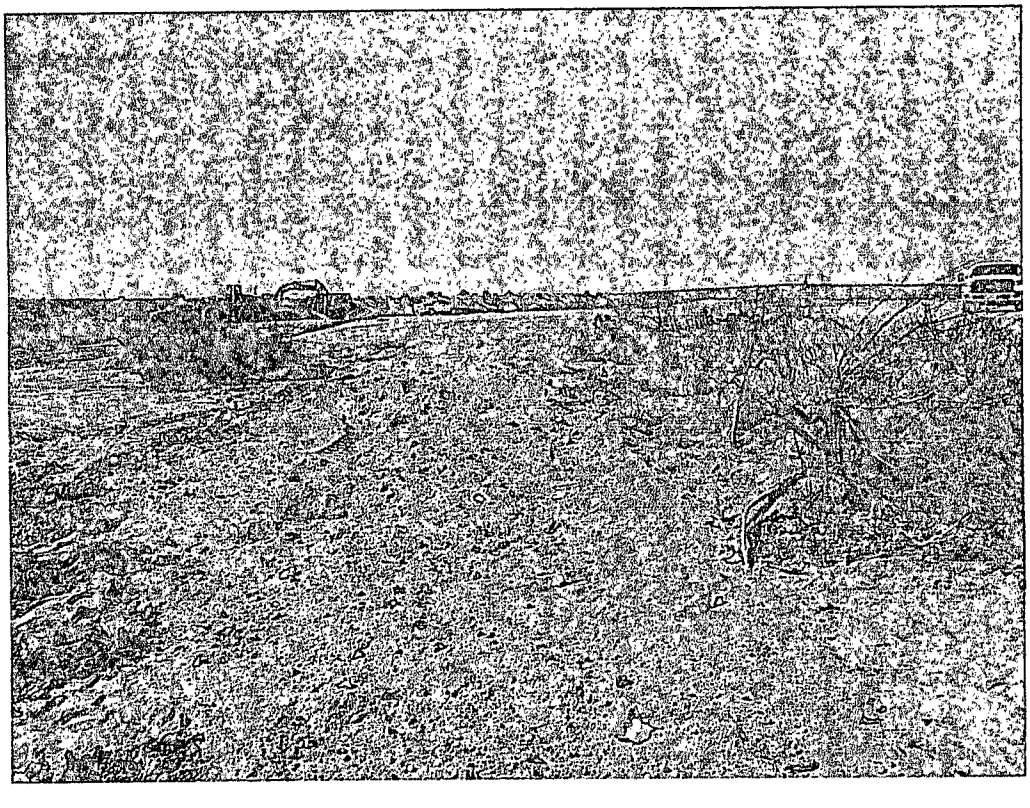
View East – Pad area backfilled

COG Operating LLC
SRO State Unit #10H
Eddy County, New Mexico

TETRA TECH



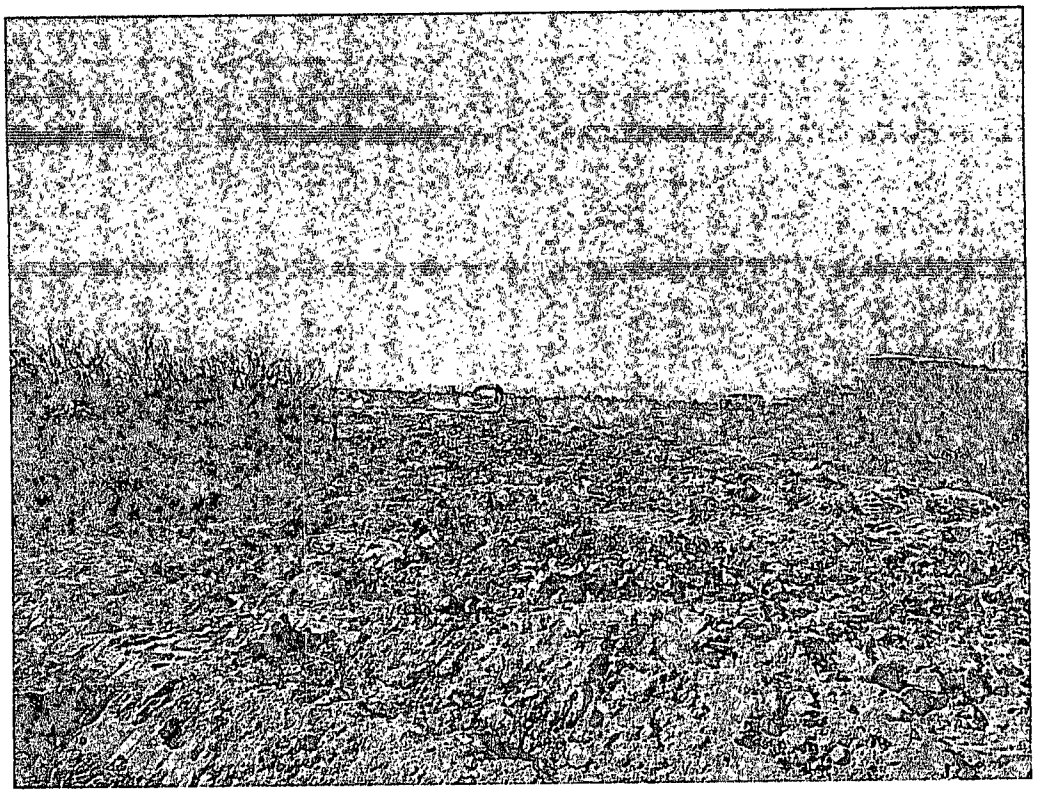
View East – AH-5 and AH-6 backfilled



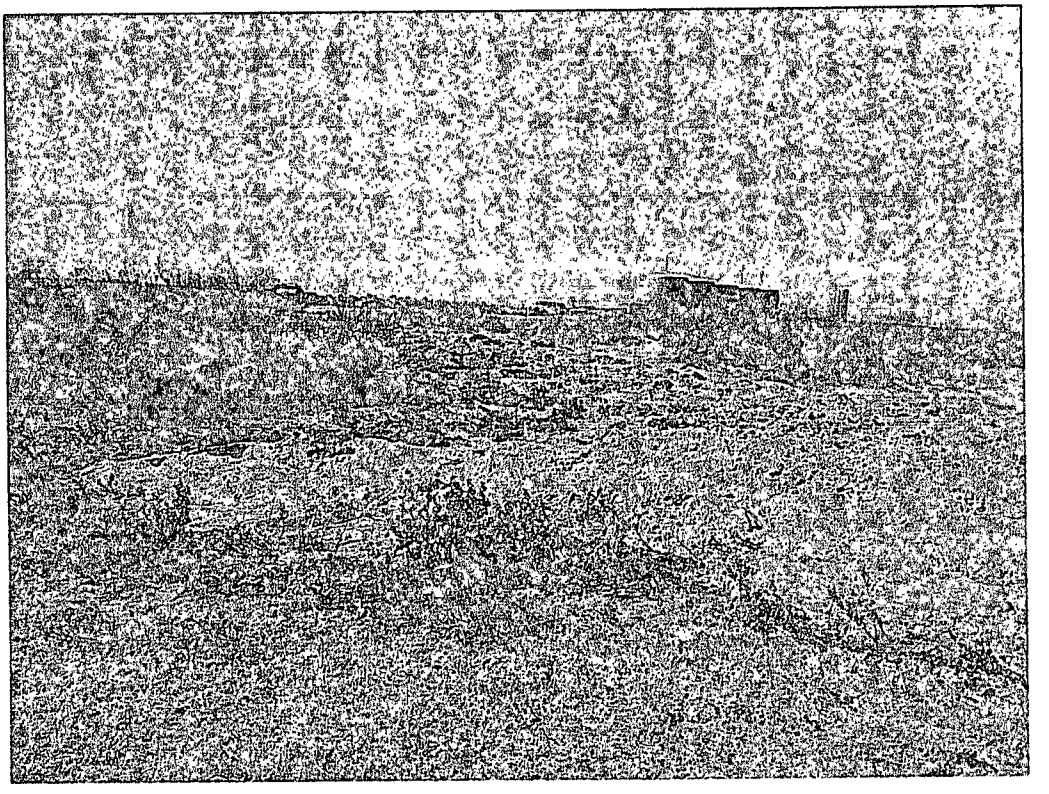
View East – AH-1 through AH-4 and AH-7 backfilled

COG Operating LLC
SRO State Unit #10H
Eddy County, New Mexico

TETRA TECH



View East – AH-7 through AH-9 backfilled



View East – AH-9 through AH-13 backfilled

Appendix A

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **COG Operating LLC**	Contact **Robert McNeill**
Address **600 W. Illinois Ave, Midland, Texas 79701**	Telephone No. **(432) 685-4332**
Facility Name **SRO State Unite #10H**	Facility Type **Tank Battery**

Surface Owner: State	Mineral Owner	Lease No. (API#) 30-015-38072

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	3	26S	28E					

Latitude N 32.0774° **Longitude** W 104.0527°

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 200 bbls	Volume Recovered 180 bbls
Source of Release: Discharge Hose	Date and Hour of Occurrence 2/08/2013	Date and Hour of Discovery 2/08/2013 5:30 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher OCD	
By Whom? Josh Russo	Date and Hour 2/09/2013 8:56 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

RECEIVED
MAR 05 2014
NMOCD ARTESIA

Describe Cause of Problem and Remedial Action Taken.*

Discharge hose came loose causing the release of the fluid. The hose has been replaced with metal piping to prevent a recurrence.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech inspected site and collected samples to define spills extent. Soil that exceeded RRAL was removed and hauled away for proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted to NMOCD for review.

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Ike Tavarez (Agent for COG)	Approved by District Supervisor:
Title: Project Manager	Approval Date: / Expiration Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval: / Attached ☐
Date: 11/18/2013 Phone: (432) 682-4559	

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
SRO STATE UNIT #10H
Eddy County, New Mexico

24 South 27 East

6	5	4	3	2	1
7	8 **26**	9 **43**	10	11	12 **27**
18 **34**	17	16	15	14	13 **31**
19	20	21	22 **70**	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South 28 East

6 **70**	5 **30**	4 **30**	3	2 **55**	1 **60**
7	8 **50**	9	10 **17**	11 **20**	12 **73**
18	17 **42**	16 **29**	15 **18**	14 **52**	13 **34**
19	20 **48**	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South 29 East

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

25 South 27 East

6	5	4	3	2	1
7	8	9	10	11	12 **92**
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 **19**	34	35	36

25 South 28 East

6	5 **69**	4 **35**	3 **32**	2	1
7	8	9	10	11	12
18 **67**	17	16	15 **48** **49**	14	13
19	20 **86**	21	22	23	24
30	29 **15**	28 **90**	27	26 **30**	25
31	32	33	34	35	36 **40**

25 South 29 East

6 **40**	5	4	3	2	1
7	8	9	10 **40**	11	12
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

26 South 27 East

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

26 South 28 East

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

26 South 29 East

6	5	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

- New Mexico State Engineers Well Reports
- USGS Well Reports
- Geology and Groundwater Conditions in Southern Eddy, County, NM
- NMOCD - Groundwater Data
- Field water level
- New Mexico Water and Infrastructure Data System

Appendix C

Summary Report

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

Report Date: March 26, 2013

Work Order: 13031819

Project Location: Eddy Co., NM
Project Name: COG/SRO State Unit #10 H
Project Number: 112C05078

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
323656	Background 0-1'	soil	2013-03-14	00:00	2013-03-18
323657	Background 2-2.5'	soil	2013-03-14	00:00	2013-03-18
323658	Background 3-3.5'	soil	2013-03-14	00:00	2013-03-18
323659	AH-1 0-1'	soil	2013-03-14	00:00	2013-03-18
323660	AH-1 1-1.5'	soil	2013-03-14	00:00	2013-03-18
323661	AH-1 2-2.5'	soil	2013-03-14	00:00	2013-03-18
323662	AH-1 3-3.5'	soil	2013-03-14	00:00	2013-03-18
323663	AH-1 4-4.5'	soil	2013-03-14	00:00	2013-03-18
323664	AH-1 5-5.5'	soil	2013-03-14	00:00	2013-03-18
323665	AH-1 6.5-7'	soil	2013-03-14	00:00	2013-03-18
323666	AH-2 0-1'	soil	2013-03-14	00:00	2013-03-18
323667	AH-2 1-1.5'	soil	2013-03-14	00:00	2013-03-18
323668	AH-2 2-2.5'	soil	2013-03-14	00:00	2013-03-18
323669	AH-2 3-3.5'	soil	2013-03-14	00:00	2013-03-18
323670	AH-2 4-4.5'	soil	2013-03-14	00:00	2013-03-18
323671	AH-2 5-5.5'	soil	2013-03-14	00:00	2013-03-18
323672	AH-3 0-1'	soil	2013-03-14	00:00	2013-03-18
323673	AH-3 1-1.5'	soil	2013-03-14	00:00	2013-03-18
323674	AH-3 2-2.5'	soil	2013-03-14	00:00	2013-03-18
323675	AH-3 3-3.5'	soil	2013-03-14	00:00	2013-03-18
323676	AH-3 4-4.5'	soil	2013-03-14	00:00	2013-03-18
323677	AH-3 5-5.5'	soil	2013-03-14	00:00	2013-03-18
323678	AH-4 0-1'	soil	2013-03-14	00:00	2013-03-18
323679	AH-4 1-1.5'	soil	2013-03-14	00:00	2013-03-18
323680	AH-4 2-2.5'	soil	2013-03-14	00:00	2013-03-18
323681	AH-4 3-3.5'	soil	2013-03-14	00:00	2013-03-18
323682	AH-4 4-4.5'	soil	2013-03-14	00:00	2013-03-18
323683	AH-4 5-5.5'	soil	2013-03-14	00:00	2013-03-18
323684	AH-4 6-6.5'	soil	2013-03-14	00:00	2013-03-18
323685	AH-5 0-1'	soil	2013-03-14	00:00	2013-03-18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
323686	AH-5 1-1.5'	soil	2013-03-14	00:00	2013-03-18
323687	AH-5 2-2.5'	soil	2013-03-14	00:00	2013-03-18
323688	AH-5 3-3.5'	soil	2013-03-14	00:00	2013-03-18
323689	AH-5 4-4.5'	soil	2013-03-14	00:00	2013-03-18
323690	AH-5 5-5.5'	soil	2013-03-14	00:00	2013-03-18
323691	AH-6 0-1'	soil	2013-03-15	00:00	2013-03-18
323692	AH-6 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323693	AH-6 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323694	AH-6 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323695	AH-6 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323696	AH-6 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323697	AH-6 6-6.5'	soil	2013-03-15	00:00	2013-03-18
323698	AH-7 0-1'	soil	2013-03-15	00:00	2013-03-18
323699	AH-7 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323700	AH-7 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323701	AH-7 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323702	AH-7 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323703	AH-7 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323704	AH-7 6-6.5'	soil	2013-03-15	00:00	2013-03-18
323705	AH-8 0-1'	soil	2013-03-15	00:00	2013-03-18
323706	AH-8 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323707	AH-8 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323708	AH-8 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323709	AH-8 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323710	AH-8 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323711	AH-8 6-6.5'	soil	2013-03-15	00:00	2013-03-18
323712	AH-9 0-1'	soil	2013-03-15	00:00	2013-03-18
323713	AH-9 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323714	AH-9 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323715	AH-9 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323716	AH-9 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323717	AH-9 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323718	AH-9 6-6.5'	soil	2013-03-15	00:00	2013-03-18
323719	AH-10 0-1'	soil	2013-03-15	00:00	2013-03-18
323720	AH-10 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323721	AH-10 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323722	AH-10 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323723	AH-10 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323724	AH-10 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323725	AH-11 0-1'	soil	2013-03-15	00:00	2013-03-18
323726	AH-11 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323727	AH-11 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323728	AH-11 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323729	AH-11 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323730	AH-11 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323731	AH-11 6-6.5'	soil	2013-03-15	00:00	2013-03-18
323732	AH-12 0-1'	soil	2013-03-15	00:00	2013-03-18
323733	AH-12 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323734	AH-12 2-2.5'	soil	2013-03-15	00:00	2013-03-18

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
323735	AH-12 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323736	AH-12 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323737	AH-12 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323738	AH-13 0-1'	soil	2013-03-15	00:00	2013-03-18
323739	AH-13 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323740	AH-13 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323741	AH-13 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323742	AH-13 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323743	AH-14 0-1'	soil	2013-03-15	00:00	2013-03-18
323744	AH-14 1-1.5'	soil	2013-03-15	00:00	2013-03-18
323745	AH-14 2-2.5'	soil	2013-03-15	00:00	2013-03-18
323746	AH-14 3-3.5'	soil	2013-03-15	00:00	2013-03-18
323747	AH-14 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323748	AH-14 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323749	Background 4-4.5'	soil	2013-03-15	00:00	2013-03-18
323750	Background 5-5.5'	soil	2013-03-15	00:00	2013-03-18
323751	Background 6-6.5'	soil	2013-03-15	00:00	2013-03-18
323752	AH-1 6-6.5'	soil	2013-03-15	00:00	2013-03-18

	BTEX				TPH DRO - NEW	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
323659 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	**0.197**	<50.0	**12.8** Qs
323666 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323672 - AH-3 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323678 - AH-4 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323685 - AH-5 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323691 - AH-6 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323698 - AH-7 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323705 - AH-8 0-1'	<0.0200	<0.0200	<0.0200	**0.0786**	<50.0	**15.6** Qs
323712 - AH-9 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323719 - AH-10 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323725 - AH-11 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323732 - AH-12 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323738 - AH-13 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
323743 - AH-14 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs

Sample: 323656 - Background 0-1'

Param	Flag	Result	Units	RL
Chloride		**29.3**	mg/Kg	4

Sample: 323657 - Background 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**34.2**	mg/Kg	4

Sample: 323658 - Background 3-3.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323659 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**13100**	mg/Kg	4

Sample: 323660 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**10900**	mg/Kg	4

Sample: 323661 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**8760**	mg/Kg	4

Sample: 323662 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**6830**	mg/Kg	4

Sample: 323663 - AH-1 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**8190**	mg/Kg	4

Sample: 323664 - AH-1 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**3870**	mg/Kg	4

Sample: 323665 - AH-1 6.5-7'

Param	Flag	Result	Units	RL
Chloride		**1890**	mg/Kg	4

Sample: 323666 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		**2830**	mg/Kg	4

Sample: 323667 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**2210**	mg/Kg	4

Sample: 323668 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**424**	mg/Kg	4

Sample: 323669 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**405**	mg/Kg	4

Sample: 323670 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**102**	mg/Kg	4

Sample: 323671 - AH-2 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**254**	mg/Kg	4

Sample: 323672 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**5190**	mg/Kg	4

Sample: 323673 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**4800**	mg/Kg	4

Sample: 323674 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**1840**	mg/Kg	4

Sample: 323675 - AH-3 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**380**	mg/Kg	4

Sample: 323676 - AH-3 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**391**	mg/Kg	4

Sample: 323677 - AH-3 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**328**	mg/Kg	4

Sample: 323678 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**4990**	mg/Kg	4

Sample: 323679 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**1980**	mg/Kg	4

Sample: 323680 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**7150**	mg/Kg	4

Sample: 323681 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**6740**	mg/Kg	4

Sample: 323682 - AH-4 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**7440**	mg/Kg	4

Sample: 323683 - AH-4 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**4540**	mg/Kg	4

Sample: 323684 - AH-4 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**4360**	mg/Kg	4

Sample: 323685 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**4410**	mg/Kg	4

Sample: 323686 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**5370**	mg/Kg	4

Sample: 323687 - AH-5 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**4770**	mg/Kg	4

Sample: 323688 - AH-5 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**315**	mg/Kg	4

Sample: 323689 - AH-5 4-4.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323690 - AH-5 5-5.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323691 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		**3130**	mg/Kg	4

Sample: 323692 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**1490**	mg/Kg	4

Sample: 323693 - AH-6 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**145**	mg/Kg	4

Sample: 323694 - AH-6 3-3.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323695 - AH-6 4-4.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323696 - AH-6 5-5.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323697 - AH-6 6-6.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323698 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		**4020**	mg/Kg	4

Sample: 323699 - AH-7 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**245**	mg/Kg	4

Sample: 323700 - AH-7 2-2.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323701 - AH-7 3-3.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323702 - AH-7 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**260**	mg/Kg	4

Sample: 323703 - AH-7 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**135**	mg/Kg	4

Sample: 323704 - AH-7 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**95.1**	mg/Kg	4

Sample: 323705 - AH-8 0-1'

Param	Flag	Result	Units	RL
Chloride		**12000**	mg/Kg	4

Sample: 323706 - AH-8 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**3860**	mg/Kg	4

Sample: 323707 - AH-8 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**1500**	mg/Kg	4

Sample: 323708 - AH-8 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**480**	mg/Kg	4

Sample: 323709 - AH-8 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**278**	mg/Kg	4

Sample: 323710 - AH-8 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**136**	mg/Kg	4

Sample: 323711 - AH-8 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**197**	mg/Kg	4

Sample: 323712 - AH-9 0-1'

Param	Flag	Result	Units	RL
Chloride		**11700**	mg/Kg	4

Sample: 323713 - AH-9 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**11300**	mg/Kg	4

Sample: 323714 - AH-9 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**7890**	mg/Kg	4

Sample: 323715 - AH-9 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**3690**	mg/Kg	4

Sample: 323716 - AH-9 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**1660**	mg/Kg	4

Sample: 323717 - AH-9 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**2160**	mg/Kg	4

Sample: 323718 - AH-9 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**536**	mg/Kg	4

Sample: 323719 - AH-10 0-1'

Param	Flag	Result	Units	RL
Chloride		**970**	mg/Kg	4

Sample: 323720 - AH-10 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**378**	mg/Kg	4

Sample: 323721 - AH-10 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**352**	mg/Kg	4

Sample: 323722 - AH-10 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**388**	mg/Kg	4

Sample: 323723 - AH-10 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**465**	mg/Kg	4

Sample: 323724 - AH-10 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**1660**	mg/Kg	4

Sample: 323725 - AH-11 0-1'

Param	Flag	Result	Units	RL
Chloride		**8990**	mg/Kg	4

Sample: 323726 - AH-11 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**7300**	mg/Kg	4

Sample: 323727 - AH-11 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**8570**	mg/Kg	4

Sample: 323728 - AH-11 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**8220**	mg/Kg	4

Sample: 323729 - AH-11 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**6780**	mg/Kg	4

Sample: 323730 - AH-11 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**4580**	mg/Kg	4

Sample: 323731 - AH-11 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**4580**	mg/Kg	4

Sample: 323732 - AH-12 0-1'

Param	Flag	Result	Units	RL
Chloride		**7780**	mg/Kg	4

Sample: 323733 - AH-12 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**7520**	mg/Kg	4

Sample: 323734 - AH-12 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**5240**	mg/Kg	4

Sample: 323735 - AH-12 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**2150**	mg/Kg	4

Sample: 323736 - AH-12 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**1550**	mg/Kg	4

Sample: 323737 - AH-12 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**787**	mg/Kg	4

Sample: 323738 - AH-13 0-1'

Param	Flag	Result	Units	RL
Chloride		**5990**	mg/Kg	4

Sample: 323739 - AH-13 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**5350**	mg/Kg	4

Sample: 323740 - AH-13 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**1540**	mg/Kg	4

Sample: 323741 - AH-13 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**361**	mg/Kg	4

Sample: 323742 - AH-13 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**20.0**	mg/Kg	4

Sample: 323743 - AH-14 0-1'

Param	Flag	Result	Units	RL
Chloride		**4080**	mg/Kg	4

Sample: 323744 - AH-14 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**5180**	mg/Kg	4

Sample: 323745 - AH-14 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**3900**	mg/Kg	4

Sample: 323746 - AH-14 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**4240**	mg/Kg	4

Sample: 323747 - AH-14 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**6540**	mg/Kg	4

Sample: 323748 - AH-14 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**3650**	mg/Kg	4

Sample: 323749 - Background 4-4.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323750 - Background 5-5.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323751 - Background 6-6.5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 323752 - AH-1 6-6.5'

Param	Flag	Result	Units	RL
Chloride		**2020**	mg/Kg	4

13031819

Analysis Request of Chain of Custody Record

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ANALYSIS REQUEST
(Circle or Specify Method No.)

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: SRO State Unit #10H
Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 806/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
923656	3/14		S		X	Background 0-1'	1				X													X				
657						2-2.5'																		X				
658						3-3.5'																		X				
659						AH-1 0-1							X	X										X				
660						1-1.5'																		X				
661						2-2.5																		X				
662						3-3.5																		X				
663						4-4.5																		X				
664						5-5.5																		X				
665						6.5-7'																		X				

RELINQUISHED BY: (Signature) — Date: 3-18-13 Time: 1403 — RECEIVED BY: (Signature) — Date: 3/18/13 Time: 1403

SAMPLED BY: (Print & Initial) TF RR — Date: 3/14/13 Time:

RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

TETRA TECH CONTACT PERSON: Ike AH — Results by:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE: DATE: TIME:
RECEIVED BY: (Signature)

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 2 C

REMARKS: Run deeper sample if TPH exceeds 1,000 mg/kg. Run deeper sample if Benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg. Midland - all extra sample added AH-1 6-6.5' as per TF.

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

13031819

Analysis Request of Chain of Custody Record

PAGE: 2 OF: 10

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.:

PROJECT NAME: SRO State Unit #10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
666	3/14		S		X	AH-2 0-1'	1				X		X		X											X				
667						1-1.5'																								
668						2-2.5'																								
669						3-3.5'																								
670						4-4.5'																								
671						5-5.5'																								
672						AH-3 0-1'							X		X															
673						1-1.5'																								
674						2-2.5'																								
675						3-3.5'																								

RELINQUISHED BY: (Signature) — Date: 3-18-13 Time: 1403
RECEIVED BY: (Signature) — Date: 3/18/13 Time: 14:03
SAMPLED BY: (Print & Initial) TF RP — Date: 3/14/13 Time:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time:
RECEIVED BY: (Signature) — Date: Time:
TETRA TECH CONTACT PERSON: IL — Results by:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 2-2°

REMARKS:

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

AH

13031819

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 10

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.:

PROJECT NAME: SRO State Unit #104 Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8081/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
676	3/14		S	X		AH-3 1-1.5'	1				X													X				
677						5-5.5'																						
678						AH-4 0-1'							X	X														
679						1-1.5'																						
680						2-2.5'																						
681						3-3.5'																						
682						1-1.5'																						
683						5-5.5'																						
684						6-6.5'																						
685						AH-5 0-1'							X	X														

RELINQUISHED BY: (Signature) — Date: 3-18-13 Time: 1403 — RECEIVED BY: (Signature) — Date: 3/18/13 Time: 14:03

SAMPLED BY: (Print & Initial) TF RD — Date: 3/14/13 Time:

RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

TETRA TECH CONTACT PERSON: Ike — Results by:

RECEIVING LABORATORY: Trace — RECEIVED BY: (Signature)

ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE: DATE: TIME:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 2.2°

REMARKS:

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

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1303189

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 10

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.:

PROJECT NAME: SRO Strata Unit # 10 H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 M/DRO	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
686	3/14		S		X	AH-5 1-1.5'	1				X															X				
687						2-2.5'																								
688						3-3.5'																								
689						4-4.5'																								
690						5-5.5'																								
691	3/15					AH-6 0-1							X	X																
692						1-1.5'																								
693						2-2.5																								
694						3-3.5																								
695						4-4.5'																								

RELINQUISHED BY: (Signature) Date: 3-13-13 Time: 1403
RECEIVED BY: (Signature) Date: 3/13/13 Time: 4:03
SAMPLED BY: (Print & Initial) TF RR Date: 3/14/13 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:
OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
TETRA TECH CONTACT PERSON: Ike
Results by:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 2.2°

REMARKS:

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

AH

1303819

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

PAGE: 5 OF: 10

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: COG/ SRO State Unit #10 H
Eddy CO, NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
696	3/15		S		X	AH 6 (5-5.5')	1				X													X				
697			S		X	(6-6.5')	1				X																	
698			S		X	AH 7 (0-1')	1				X		X	X														
699			S		X	(1-1.5')	1				X																	
700			S		X	(2-2.5')	1				X																	
701			S		X	(3-3.5')	1				X																	
702			S		X	(4-4.5')	1				X																	
703			S		X	(5-5.5')	1				X																	
704			S		X	(6-6.5')	1				X																	
705			S		X	AH 8 (0-1')	1				X		X	X														

RELINQUISHED BY: (Signature)	Date: 3-18-13 Time: 1403	RECEIVED BY: (Signature)	Date: 3/18/13 Time: 1403
SAMPLED BY: (Print & Initial)	Date: Time:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez	Results by:		
RECEIVING LABORATORY: Fasc ADDRESS: CITY: Midland STATE: ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 2.2°	REMARKS:		

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

AH

1303189

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:	SITE MANAGER:
COG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
112105078	COG / SRO State Unit # 10 H

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. / TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chlorides	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
706	3/15		S		X	AH B (1-1.5')	1				X													X				
707			S		X	(2-2.5')	1				X																	
708			S		X	(3-3.5')	1				X																	
709			S		X	(4-4.5')	1				X																	
710			S		X	(5-5.5')	1				X																	
711			S		X	(6-6.5')	1				X																	
712			S		X	AH 9 (0-1')	1				X		X	X														
713			S		X	(1-1.5')	1				X																	
714			S		X	(2-2.5')	1				X																	
715			S		X	(3-3.5')	1				X																	

RELINQUISHED BY: (Signature)	Date: 3-18-13 Time: 1403	RECEIVED BY: (Signature)	Date: 3/18/13 Time: 14:05
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) AR/TF — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: ZIP:
CONTACT: PHONE: DATE: TIME:
RECEIVED BY: (Signature)

SAMPLE CONDITION WHEN RECEIVED: 2.2°

REMARKS:

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

AH

1303189

Analysis Request of Chain of Custody Record

PAGE: 7 OF: 12

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05278

PROJECT NAME: COG / SRO ~~Federal~~ State Unit #10H
Eddy CO, NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD/TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
716	3/15		S		X	AH 9 (4-4.5')	1				X													X				
717	"		S		X	(5-5.5')	1				X																	
718			S		X	(6-6.5')	1				X																	
719			S		X	AH 10 (0-1')	1				X		X	X														
720			S		X	(1-1.5')	1				X																	
721			S		X	(2-2.5')	1				X																	
722			S		X	(3-3.5')	1				X																	
723			S		X	(4-4.5')	1				X																	
724			S		X	(5-5.5')	1				X																	
725	"		S		X	AH 11 (0-1')	1				X		X	X														

RELINQUISHED BY: (Signature)	Date: 3-18-13 Time: 1403	RECEIVED BY: (Signature)	Date: 3/18/13 Time: 1403
SAMPLED BY: (Print & Initial) AR/TR	Date: Time:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX ~~HAND DELIVERED~~ BUS UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez	Results by:		
RECEIVING LABORATORY: Trace ADDRESS: CITY: Midland STATE: ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 2.2°	REMARKS:		

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

AH

13031819

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 10

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: COG/SRO State Unit #10 H

Eddy Co, NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
726	3/15		S		X	AH 11 (1-1.5')	1				X													X				
727			S		X	(2-2.5')	1				X																	
728			S		X	(3-3.5')	1				X																	
729			S		X	(4-4.5')	1				X																	
730			S		X	(5-5.5')	1				X																	
731			S		X	(6-6.5')	1				X																	
732			S		X	AH 12 (0-1')	1				X		X	X														
733			S		X	(1-1.5')	1				X																	
734			S		X	(2-2.5')	1				X																	
735			S		X	(3-3.5')	1				X																	

RELINQUISHED BY: (Signature) Date: 3-18-13 Time: 1403
RECEIVED BY: (Signature) Date: 3/18/13 Time: 14:03
SAMPLED BY: (Print & Initial) RE / TF Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:
OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: ZIP:
CONTACT: PHONE: DATE: TIME:
RECEIVED BY: (Signature)

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 2.2°

REMARKS:

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

AH

1300101?

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG
SITE MANAGER: Ike Tavarez
PROJECT NO.: 112C05078
PROJECT NAME: COG/SRO Style unit #10 H
Eddy Co. NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
736	3/15		S		X	AH 12 (4-4.5')	1				X														X			
737			S		X	(5-5.5')	1				X																	
738			S		X	AH 13 (0-1')	1				X		X	X														
739			S		X	(1-1.5')	1				X																	
740			S		X	(2-2.5')	1				X																	
741			S		X	(3-3.5')	1				X																	
742			S		X	(4-4.5')	1				X																	
743			S		X	AH 14 (0-1')	1				X		X	X														
744			S		X	(1-1.5')	1				X																	
745			S		X	(2-2.5')	1				X																	

RELINQUISHED BY: (Signature) Date: 3-18-13 Time: 1403
RECEIVED BY: (Signature) Date: 3/18/13 Time: 14:03
SAMPLED BY: (Print & Initial) RC/TF Date: Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS ~~HAND DELIVERED~~ UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
TETRA TECH CONTACT PERSON: Ike Tavarez Results by:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: ZIP:
CONTACT: PHONE: DATE: TIME:
RECEIVED BY: (Signature)
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 2.2°
REMARKS:

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

AH

1303181819

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 10

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: COG/ SRO State Unit #10 H
Eddy Co, NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
746	3/15		S		X	AH 14 (3-3.5')	1				X															X				
747			S		X	(4-4.5')	1				X																			
748			S		X	(5-5.5')	1				X																			
749	3/15		S		X	Background 4-4.5'																				X				
750			S		X	5-5.5'																				X				
751			S		X	6-6.5'																				X				
752						AH-1 6-6.5'																				X				

ANALYSIS REQUEST
(Circle or Specify Method No.)

RELINQUISHED BY: (Signature)	Date: 3-18-13 Time: 1403	RECEIVED BY: (Signature)	Date: 3/18/13 Time: 1403
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RECEIVING LABORATORY: Trace ADDRESS: CITY: Midland STATE: ZIP: CONTACT: PHONE:		RECEIVED BY: (Signature) DATE: TIME:	

SAMPLED BY: (Print & Initial) Ike Tavarez — Date: Time:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS
HAND DELIVERED UPS
AIRBILL #:
OTHER:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 22°

REMARKS:

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

AH

Summary Report

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

Report Date: May 16, 2013

Work Order: 13051001

Project Location: Eddy Co., NM
Project Name: COG/SRO State Unit #10 H
Project Number: 112C05078

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
328782	SB-1 0-1'	soil	2013-05-02	00:00	2013-05-09
328783	SB-1 2-3'	soil	2013-05-02	00:00	2013-05-09
328784	SB-1 4-5'	soil	2013-05-02	00:00	2013-05-09
328785	SB-1 6-7'	soil	2013-05-02	00:00	2013-05-09
328786	SB-1 9-10'	soil	2013-05-02	00:00	2013-05-09
328787	SB-1 14-15'	soil	2013-05-02	00:00	2013-05-09
328788	SB-1 19-20'	soil	2013-05-02	00:00	2013-05-09
328789	SB-1 24-25'	soil	2013-05-02	00:00	2013-05-09
328790	SB-1 29-30'	soil	2013-05-02	00:00	2013-05-09
328791	SB-1 39-40'	soil	2013-05-02	00:00	2013-05-09
328792	Background 0-1'	soil	2013-05-02	00:00	2013-05-09
328793	Background 5'	soil	2013-05-02	00:00	2013-05-09
328794	Background 10'	soil	2013-05-02	00:00	2013-05-09
328795	Background 15'	soil	2013-05-02	00:00	2013-05-09
328796	Background 20'	soil	2013-05-02	00:00	2013-05-09
328797	Background 25'	soil	2013-05-02	00:00	2013-05-09
328798	Background 30'	soil	2013-05-02	00:00	2013-05-09
328799	Background 35'	soil	2013-05-02	00:00	2013-05-09
328800	SB-2 0-1'	soil	2013-05-02	00:00	2013-05-09
328801	SB-2 2-3'	soil	2013-05-02	00:00	2013-05-09
328802	SB-2 4-5'	soil	2013-05-02	00:00	2013-05-09
328803	SB-2 6-7'	soil	2013-05-02	00:00	2013-05-09
328804	SB-2 9-10'	soil	2013-05-02	00:00	2013-05-09
328805	SB-2 14-15'	soil	2013-05-02	00:00	2013-05-09
328806	SB-2 19-20'	soil	2013-05-02	00:00	2013-05-09
328807	SB-2 24-25'	soil	2013-05-02	00:00	2013-05-09
328808	SB-3 0-1'	soil	2013-05-02	00:00	2013-05-09
328809	SB-3 2-3'	soil	2013-05-02	00:00	2013-05-09
328810	SB-3 4-5'	soil	2013-05-02	00:00	2013-05-09
328811	SB-3 6-7'	soil	2013-05-02	00:00	2013-05-09

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
328812	SB-3 9-10'	soil	2013-05-02	00:00	2013-05-09
328813	SB-4 0-1'	soil	2013-05-02	00:00	2013-05-09
328814	SB-4 2-3'	soil	2013-05-02	00:00	2013-05-09
328815	SB-4 4-5'	soil	2013-05-02	00:00	2013-05-09
328816	SB-4 6-7'	soil	2013-05-02	00:00	2013-05-09
328817	SB-4 9-10'	soil	2013-05-02	00:00	2013-05-09
328818	SB-4 14-15'	soil	2013-05-02	00:00	2013-05-09
328819	SB-4 19-20'	soil	2013-05-02	00:00	2013-05-09
328820	SB-9 0-1'	soil	2013-05-03	00:00	2013-05-09
328821	SB-9 2-3'	soil	2013-05-03	00:00	2013-05-09
328822	SB-9 4-5'	soil	2013-05-03	00:00	2013-05-09
328823	SB-9 6-7'	soil	2013-05-03	00:00	2013-05-09
328824	SB-9 9-10'	soil	2013-05-03	00:00	2013-05-09
328825	SB-7 0-1'	soil	2013-05-03	00:00	2013-05-09
328826	SB-7 2-3'	soil	2013-05-03	00:00	2013-05-09
328827	SB-7 4-5'	soil	2013-05-03	00:00	2013-05-09
328828	SB-7 6-7'	soil	2013-05-03	00:00	2013-05-09
328829	SB-5 0-1'	soil	2013-05-06	00:00	2013-05-09
328830	SB-5 2-3'	soil	2013-05-06	00:00	2013-05-09
328831	SB-5 4-5'	soil	2013-05-06	00:00	2013-05-09
328832	SB-5 6-7'	soil	2013-05-06	00:00	2013-05-09
328833	SB-5 9-10'	soil	2013-05-06	00:00	2013-05-09
328834	SB-6 0-1'	soil	2013-05-06	00:00	2013-05-09
328835	SB-6 2-3'	soil	2013-05-06	00:00	2013-05-09
328836	SB-6 4-5'	soil	2013-05-06	00:00	2013-05-09
328837	SB-6 6-7'	soil	2013-05-06	00:00	2013-05-09
328838	SB-6 9-10'	soil	2013-05-06	00:00	2013-05-09
328839	SB-6 14-15'	soil	2013-05-06	00:00	2013-05-09
328840	SB-8 0-1'	soil	2013-05-06	00:00	2013-05-09
328841	SB-8 2-3'	soil	2013-05-06	00:00	2013-05-09
328842	SB-8 4-5'	soil	2013-05-06	00:00	2013-05-09
328843	SB-8 6-7'	soil	2013-05-06	00:00	2013-05-09
328844	SB-8 9-10'	soil	2013-05-06	00:00	2013-05-09
328845	SB-10 @ AH-1 0-1'	soil	2013-05-06	00:00	2013-05-09
328846	SB-10 @ AH-1 2-3'	soil	2013-05-06	00:00	2013-05-09
328847	SB-10 @ AH-1 4-5'	soil	2013-05-06	00:00	2013-05-09
328848	SB-10 @ AH-1 6-7'	soil	2013-05-06	00:00	2013-05-09
328849	SB-10 @ AH-1 9-10'	soil	2013-05-06	00:00	2013-05-09
328850	SB-10 @ AH-1 14-15'	soil	2013-05-06	00:00	2013-05-09
328851	SB-10 @ AH-1 19-20'	soil	2013-05-06	00:00	2013-05-09
328852	SB-10 @ AH-1 24-25'	soil	2013-05-06	00:00	2013-05-09
328853	SB-10 @ AH-1 29-30'	soil	2013-05-06	00:00	2013-05-09
328854	SB-10 @ AH-1 39-40'	soil	2013-05-06	00:00	2013-05-09
328855	SB-11 @ AH-4 0-1'	soil	2013-05-06	00:00	2013-05-09
328856	SB-11 @ AH-4 2-3'	soil	2013-05-06	00:00	2013-05-09
328857	SB-11 @ AH-4 4-5'	soil	2013-05-06	00:00	2013-05-09
328858	SB-11 @ AH-4 6-7'	soil	2013-05-06	00:00	2013-05-09
328859	SB-11 @ AH-4 9-10'	soil	2013-05-06	00:00	2013-05-09
328861	SB-12 @ AH-10 0-1'	soil	2013-05-06	00:00	2013-05-09

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
328862	SB-12 @ AH-10 2-3'	soil	2013-05-06	00:00	2013-05-09
328863	SB-12 @ AH-10 4-5'	soil	2013-05-06	00:00	2013-05-09
328864	SB-12 @ AH-10 6-7'	soil	2013-05-06	00:00	2013-05-09
328865	SB-12 @ AH-10 9-10'	soil	2013-05-06	00:00	2013-05-09
328866	SB-12 @ AH-10 14-15'	soil	2013-05-06	00:00	2013-05-09
328867	SB-12 @ AH-10 19-20'	soil	2013-05-06	00:00	2013-05-09
328868	SB-12 @ AH-10 24-25'	soil	2013-05-06	00:00	2013-05-09
328869	SB-13 @ AH-11 0-1'	soil	2013-05-07	00:00	2013-05-09
328870	SB-13 @ AH-11 2-3'	soil	2013-05-07	00:00	2013-05-09
328871	SB-13 @ AH-11 4-5'	soil	2013-05-07	00:00	2013-05-09
328872	SB-13 @ AH-11 6-7'	soil	2013-05-07	00:00	2013-05-09
328873	SB-13 @ AH-11 9-10'	soil	2013-05-07	00:00	2013-05-09
328874	SB-13 @ AH-11 14-15'	soil	2013-05-07	00:00	2013-05-09
328875	SB-13 @ AH-11 19-20'	soil	2013-05-07	00:00	2013-05-09
328876	SB-13 @ AH-11 24-25'	soil	2013-05-07	00:00	2013-05-09
328878	SB-14 @ AH-14 0-1'	soil	2013-05-07	00:00	2013-05-09
328879	SB-14 @ AH-14 2-3'	soil	2013-05-07	00:00	2013-05-09
328880	SB-14 @ AH-14 4-5'	soil	2013-05-07	00:00	2013-05-09
328881	SB-14 @ AH-14 6-7'	soil	2013-05-07	00:00	2013-05-09
328882	SB-14 @ AH-14 9-10'	soil	2013-05-07	00:00	2013-05-09
328883	SB-14 @ AH-14 14-15'	soil	2013-05-07	00:00	2013-05-09
328884	SB-14 @ AH-14 19-20'	soil	2013-05-07	00:00	2013-05-09
328885	SB-14 @ AH-14 24-25'	soil	2013-05-07	00:00	2013-05-09

Sample: 328782 - SB-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**6380**	mg/Kg	4

Sample: 328783 - SB-1 2-3'

Param	Flag	Result	Units	RL
Chloride		**3850**	mg/Kg	4

Sample: 328784 - SB-1 4-5'

Param	Flag	Result	Units	RL
Chloride		**2910**	mg/Kg	4

Sample: 328785 - SB-1 6-7'

Param	Flag	Result	Units	RL
Chloride		**2320**	mg/Kg	4

Sample: 328786 - SB-1 9-10'

Param	Flag	Result	Units	RL
Chloride		**1340**	mg/Kg	4

Sample: 328787 - SB-1 14-15'

Param	Flag	Result	Units	RL
Chloride		**1600**	mg/Kg	4

Sample: 328788 - SB-1 19-20'

Param	Flag	Result	Units	RL
Chloride		**1280**	mg/Kg	4

Sample: 328789 - SB-1 24-25'

Param	Flag	Result	Units	RL
Chloride		**1240**	mg/Kg	4

Sample: 328790 - SB-1 29-30'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328791 - SB-1 39-40'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328792 - Background 0-1'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328793 - Background 5'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328794 - Background 10'

Param	Flag	Result	Units	RL
Chloride		**601**	mg/Kg	4

Sample: 328795 - Background 15'

Param	Flag	Result	Units	RL
Chloride		**159**	mg/Kg	4

Sample: 328796 - Background 20'

Param	Flag	Result	Units	RL
Chloride		**477**	mg/Kg	4

Sample: 328797 - Background 25'

Param	Flag	Result	Units	RL
Chloride		**959**	mg/Kg	4

Sample: 328798 - Background 30'

Param	Flag	Result	Units	RL
Chloride		**49.2**	mg/Kg	4

Sample: 328799 - Background 35'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328800 - SB-2 0-1'

Param	Flag	Result	Units	RL
Chloride		**14800**	mg/Kg	4

Sample: 328801 - SB-2 2-3'

Param	Flag	Result	Units	RL
Chloride		**14500**	mg/Kg	4

Sample: 328802 - SB-2 4-5'

Param	Flag	Result	Units	RL
Chloride		**6900**	mg/Kg	4

Sample: 328803 - SB-2 6-7'

Param	Flag	Result	Units	RL
Chloride		**2170**	mg/Kg	4

Sample: 328804 - SB-2 9-10'

Param	Flag	Result	Units	RL
Chloride		**2030**	mg/Kg	4

Sample: 328805 - SB-2 14-15'

Param	Flag	Result	Units	RL
Chloride		**1850**	mg/Kg	4

Sample: 328806 - SB-2 19-20'

Param	Flag	Result	Units	RL
Chloride		**1830**	mg/Kg	4

Sample: 328807 - SB-2 24-25'

Param	Flag	Result	Units	RL
Chloride		**1360**	mg/Kg	4

Sample: 328808 - SB-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**18600**	mg/Kg	4

Sample: 328809 - SB-3 2-3'

Param	Flag	Result	Units	RL
Chloride		**17600**	mg/Kg	4

Sample: 328810 - SB-3 4-5'

Param	Flag	Result	Units	RL
Chloride		**1320**	mg/Kg	4

Sample: 328811 - SB-3 6-7'

Param	Flag	Result	Units	RL
Chloride		**957**	mg/Kg	4

Sample: 328812 - SB-3 9-10'

Param	Flag	Result	Units	RL
Chloride		**2420**	mg/Kg	4

Sample: 328813 - SB-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**10800**	mg/Kg	4

Sample: 328814 - SB-4 2-3'

Param	Flag	Result	Units	RL
Chloride		**9110**	mg/Kg	4

Sample: 328815 - SB-4 4-5'

Param	Flag	Result	Units	RL
Chloride		**1710**	mg/Kg	4

Sample: 328816 - SB-4 6-7'

Param	Flag	Result	Units	RL
Chloride		**741**	mg/Kg	4

Sample: 328817 - SB-4 9-10'

Param	Flag	Result	Units	RL
Chloride		**1210**	mg/Kg	4

Sample: 328818 - SB-4 14-15'

Param	Flag	Result	Units	RL
Chloride		**961**	mg/Kg	4

Sample: 328819 - SB-4 19-20'

Param	Flag	Result	Units	RL
Chloride		**947**	mg/Kg	4

Sample: 328820 - SB-9 0-1'

Param	Flag	Result	Units	RL
Chloride		**745**	mg/Kg	4

Sample: 328821 - SB-9 2-3'

Param	Flag	Result	Units	RL
Chloride		**991**	mg/Kg	4

Sample: 328822 - SB-9 4-5'

Param	Flag	Result	Units	RL
Chloride		**181**	mg/Kg	4

Sample: 328823 - SB-9 6-7'

Param	Flag	Result	Units	RL
Chloride		**329**	mg/Kg	4

Sample: 328824 - SB-9 9-10'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328825 - SB-7 0-1'

Param	Flag	Result	Units	RL
Chloride		**7800**	mg/Kg	4

Sample: 328826 - SB-7 2-3'

Param	Flag	Result	Units	RL
Chloride		**1950**	mg/Kg	4

Sample: 328827 - SB-7 4-5'

Param	Flag	Result	Units	RL
Chloride		**603**	mg/Kg	4

Sample: 328828 - SB-7 6-7'

Param	Flag	Result	Units	RL
Chloride		**238**	mg/Kg	4

Sample: 328829 - SB-5 0-1'

Param	Flag	Result	Units	RL
Chloride		**25100**	mg/Kg	4

Sample: 328830 - SB-5 2-3'

Param	Flag	Result	Units	RL
Chloride		**3570**	mg/Kg	4

Sample: 328831 - SB-5 4-5'

Param	Flag	Result	Units	RL
Chloride		**738**	mg/Kg	4

Sample: 328832 - SB-5 6-7'

Param	Flag	Result	Units	RL
Chloride		**778**	mg/Kg	4

Sample: 328833 - SB-5 9-10'

Param	Flag	Result	Units	RL
Chloride		**1200**	mg/Kg	4

Sample: 328834 - SB-6 0-1'

Param	Flag	Result	Units	RL
Chloride		**12100**	mg/Kg	4

Sample: 328835 - SB-6 2-3'

Param	Flag	Result	Units	RL
Chloride		**8400**	mg/Kg	4

Sample: 328836 - SB-6 4-5'

Param	Flag	Result	Units	RL
Chloride		**69.4**	mg/Kg	4

Sample: 328837 - SB-6 6-7'

Param	Flag	Result	Units	RL
Chloride		**961**	mg/Kg	4

Sample: 328838 - SB-6 9-10'

Param	Flag	Result	Units	RL
Chloride		**871**	mg/Kg	4

Sample: 328839 - SB-6 14-15'

Param	Flag	Result	Units	RL
Chloride		**1120**	mg/Kg	4

Sample: 328840 - SB-8 0-1'

Param	Flag	Result	Units	RL
Chloride		**2620**	mg/Kg	4

Sample: 328841 - SB-8 2-3'

Param	Flag	Result	Units	RL
Chloride		**3660**	mg/Kg	4

Sample: 328842 - SB-8 4-5'

Param	Flag	Result	Units	RL
Chloride		**1340**	mg/Kg	4

Sample: 328843 - SB-8 6-7'

Param	Flag	Result	Units	RL
Chloride		**54.2**	mg/Kg	4

Sample: 328844 - SB-8 9-10'

Param	Flag	Result	Units	RL
Chloride		**241**	mg/Kg	4

Sample: 328845 - SB-10 @ AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**9580**	mg/Kg	4

Sample: 328846 - SB-10 @ AH-1 2-3'

Param	Flag	Result	Units	RL
Chloride		**23700**	mg/Kg	4

Sample: 328847 - SB-10 @ AH-1 4-5'

Param	Flag	Result	Units	RL
Chloride		**7630**	mg/Kg	4

Sample: 328848 - SB-10 @ AH-1 6-7'

Param	Flag	Result	Units	RL
Chloride		**4520**	mg/Kg	4

Sample: 328849 - SB-10 @ AH-1 9-10'

Param	Flag	Result	Units	RL
Chloride		**1890**	mg/Kg	4

Sample: 328850 - SB-10 @ AH-1 14-15'

Param	Flag	Result	Units	RL
Chloride		**3940**	mg/Kg	4

Sample: 328851 - SB-10 @ AH-1 19-20'

Param	Flag	Result	Units	RL
Chloride		**438**	mg/Kg	4

Sample: 328852 - SB-10 @ AH-1 24-25'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328853 - SB-10 @ AH-1 29-30'

Param	Flag	Result	Units	RL
Chloride		**112**	mg/Kg	4

Sample: 328854 - SB-10 @ AH-1 39-40'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328855 - SB-11 @ AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**609**	mg/Kg	4

Sample: 328856 - SB-11 @ AH-4 2-3'

Param	Flag	Result	Units	RL
Chloride		**1030**	mg/Kg	4

Sample: 328857 - SB-11 @ AH-4 4-5'

Param	Flag	Result	Units	RL
Chloride		**358**	mg/Kg	4

Sample: 328858 - SB-11 @ AH-4 6-7'

Param	Flag	Result	Units	RL
Chloride		**53.9**	mg/Kg	4

Sample: 328859 - SB-11 @ AH-4 9-10'

Param	Flag	Result	Units	RL
Chloride		**68.6**	mg/Kg	4

Sample: 328861 - SB-12 @ AH-10 0-1'

Param	Flag	Result	Units	RL
Chloride		**98.0**	mg/Kg	4

Sample: 328862 - SB-12 @ AH-10 2-3'

Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Sample: 328863 - SB-12 @ AH-10 4-5'

Param	Flag	Result	Units	RL
Chloride		**34.3**	mg/Kg	4

Sample: 328864 - SB-12 @ AH-10 6-7'

Param	Flag	Result	Units	RL
Chloride		**1130**	mg/Kg	4

Sample: 328865 - SB-12 @ AH-10 9-10'

Param	Flag	Result	Units	RL
Chloride		**324**	mg/Kg	4

Sample: 328866 - SB-12 @ AH-10 14-15'

Param	Flag	Result	Units	RL
Chloride		**176**	mg/Kg	4

Sample: 328867 - SB-12 @ AH-10 19-20'

Param	Flag	Result	Units	RL
Chloride		**98.4**	mg/Kg	4

Sample: 328868 - SB-12 @ AH-10 24-25'

Param	Flag	Result	Units	RL
Chloride		**59.1**	mg/Kg	4

Sample: 328869 - SB-13 @ AH-11 0-1'

Param	Flag	Result	Units	RL
Chloride		**12300**	mg/Kg	4

Sample: 328870 - SB-13 @ AH-11 2-3'

Param	Flag	Result	Units	RL
Chloride		**8760**	mg/Kg	4

Sample: 328871 - SB-13 @ AH-11 4-5'

Param	Flag	Result	Units	RL
Chloride		**5750**	mg/Kg	4

Sample: 328872 - SB-13 @ AH-11 6-7'

Param	Flag	Result	Units	RL
Chloride		**3400**	mg/Kg	4

Sample: 328873 - SB-13 @ AH-11 9-10'

Param	Flag	Result	Units	RL
Chloride		**379**	mg/Kg	4

Sample: 328874 - SB-13 @ AH-11 14-15'

Param	Flag	Result	Units	RL
Chloride		**925**	mg/Kg	4

Sample: 328875 - SB-13 @ AH-11 19-20'

Param	Flag	Result	Units	RL
Chloride		**354**	mg/Kg	4

Sample: 328876 - SB-13 @ AH-11 24-25'

Param	Flag	Result	Units	RL
Chloride		**98.4**	mg/Kg	4

Sample: 328878 - SB-14 @ AH-14 0-1'

Param	Flag	Result	Units	RL
Chloride		**20200**	mg/Kg	4

Sample: 328879 - SB-14 @ AH-14 2-3'

Param	Flag	Result	Units	RL
Chloride		**8640**	mg/Kg	4

Sample: 328880 - SB-14 @ AH-14 4-5'

Param	Flag	Result	Units	RL
Chloride		**944**	mg/Kg	4

Sample: 328881 - SB-14 @ AH-14 6-7'

Param	Flag	Result	Units	RL
Chloride		**259**	mg/Kg	4

Sample: 328882 - SB-14 @ AH-14 9-10'

Param	Flag	Result	Units	RL
Chloride		**910**	mg/Kg	4

Sample: 328883 - SB-14 @ AH-14 14-15'

Param	Flag	Result	Units	RL
Chloride		**557**	mg/Kg	4

Sample: 328884 - SB-14 @ AH-14 19-20'

Param	Flag	Result	Units	RL
Chloride		**73.4**	mg/Kg	4

Sample: 328885 - SB-14 @ AH-14 24-25'

Param	Flag	Result	Units	RL
Chloride		**88.0**	mg/Kg	4

13051001

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 11

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: COG
SITE MANAGER: Ike Tavarez
PROJECT NO.: 116 C05078
PROJECT NAME: SRO State Unit # 10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
328782	5/2		S		X	SB-1 0-1'	1																		X				
783	↓		↓		↓	2-3'	↓																		↓				
784						4-5'																							
785						6-7'																							
786						9-10'																							
787						14-15'																							
788						19-20'																							
789						24-25'																							
790						29-30'																							
791	↓		↓		↓	39-40'	↓																		↓				

RELINQUISHED BY: (Signature) [signature] Date: 5-9-13 Time: 1530
RECEIVED BY: (Signature) [signature] Date: 5/9/13 Time: 15:30
SAMPLED BY: (Print & Initial) TF Date: 5-2-13 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED (circled) UPS OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace
RECEIVED BY: (Signature)
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE: DATE: TIME:

TETRA TECH CONTACT PERSON: Ike
Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: X 33.5
REMARKS: not on ice Midland all

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

1305001

Analysis Request of Chain of Custody Record

PAGE: 2 OF: 11

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:	SITE MANAGER:
COG	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
112C05078	SRO State Unit # 10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
792	5/2		S		X	Background	0-1'	1																	X				
793							5'																						
794							10'																						
795							15'																						
796							20'																						
797							25'																						
798							30'																						
799							35'																						
800						SB-2	0-1'																						
801	V		V		V		2-3'	V																	N				

RELINQUISHED BY: (Signature)	Date: 5-9-13 Time: 15:30	RECEIVED BY: (Signature)	Date: 5/9/13 Time: 15:30
SAMPLED BY: (Print & Initial) TF	Date: 5-8-13 Time:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: Ike	Results by:		
RECEIVING LABORATORY: Trace ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 33.5	REMARKS:		

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

1305100I

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: SRO State Unit # 10H Eddy Co NM

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
802	5/2/2013		S		X	SB-2	4-5'	1																		X			
803							6-7'																						
804							9-10'																						
805							14-15'																						
806							19-20'																						
807							24-25'																						
808						SB-3	0-1'																						
809							2-3'																						
810							4-5'																						
811							6-7'																						

RELINQUISHED BY: (Signature) Date: 5-9-13 Time: 1530
RECEIVED BY: (Signature) Date: 5/9/13 Time: 15:30
SAMPLED BY: (Print & Initial) TF Date: 5-2-13 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS
AIRBILL #:
OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
TETRA TECH CONTACT PERSON: Ike
Results by:

RECEIVING LABORATORY: Xenco
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 395
REMARKS:

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

13051001

Analysis Request of Chain of Custody Record

PAGE: 4 OF: 11

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C050T8

PROJECT NAME: SRO State Unit #10H Eddy Co NM

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
812	5/2		S		X	SB-3	9-10'	1																		X				
813						SB-4	0-1'																							
814							2-3'																							
815							4-5'																							
816							6-7'																							
817							9-10'																							
818							14-15'																							
819	↓						19-20'																							
820	5/3					SB-9	0-1'																							
821	↓		↓		↓		2-3'	↓																		↓				

RELINQUISHED BY: (Signature) Date: 5-9-13 Time: 1530

RECEIVED BY: (Signature) Date: 5/9/13 Time: 15:30

SAMPLED BY: (Print & Initial) TE Date: 5-2-13 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Trace

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE: DATE: TIME:

RECEIVED BY: (Signature)

SAMPLE CONDITION WHEN RECEIVED: 33.5

REMARKS:

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

1305100I

Analysis Request of Chain of Custody Record

PAGE: 5 OF: 11

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: SRO State Unit #10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
822	5/3		S		X	SB-9	1-5'	1																		X				
823							6-7'																							
824							9-10'																							
825						SB-7	0-1'																							
826							2-3'																							
827							1-5'																							
828							6-7'																							
829	5/6					SB-5	0-1'																							
830	5/6						2-3'																							
831	5/6		↓		↓		1-5'	↓																		↓				

RELINQUISHED BY: (Signature)	Date: 5-9-13 Time: 15:30	RECEIVED BY: (Signature)	Date: 5/9/13 Time: 15:32
SAMPLED BY: (Print & Initial) TF	Date: 5-3-13 Time:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS	AIRBILL #: OTHER:		
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
TETRA TECH CONTACT PERSON: Ike	Results by:		
RECEIVING LABORATORY: Trace ADDRESS: CITY: Midland STATE: TX ZIP: CONTACT: PHONE:	RECEIVED BY: (Signature) DATE: TIME:		RUSH Charges Authorized: Yes No
SAMPLE CONDITION WHEN RECEIVED: 33.5	REMARKS:		

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

1305/001

Analysis Request of Chain of Custody Record

PAGE: 6 OF: 11

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: SRO State Unit # 10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
832	5/16		S		X	SB-5 6-7'	1					
833						9-10'						
834						SB-6 0-1'						
835						2-3'						
836						4-5'						
837						6-7'						
838						9-10'						
839						14-15'						
840						SB-8 0-1'						
841	↓		↓		↓	2-3'	↓					

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B | TPH 8015 MOD. TX1005 (Ext. to C35) | PAH 8270 | RCRA Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Vr Pd Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC.MS Vol. 8240/8260/624 | GC.MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 808/608 | Chloride | Gamma Spec. | Alpha Beta (Air) | PLM (Asbestos) | Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature) — Date: 5-9-13 Time: 1530 — RECEIVED BY: (Signature) — Date: 5/9/13 Time: 1530

SAMPLED BY: (Print & Initial) TF — Date: 5-6-13 Time:

RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) ~~FEDEX~~ BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Trace — RECEIVED BY: (Signature)
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE: DATE: TIME:

TETRA TECH CONTACT PERSON: Ike — Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 33.5

REMARKS:

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

13051001

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C050078

PROJECT NAME: SRD State Unit #10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/808	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
842	5/6		S		X	SB-8	1-5'	1																		X				
843							6-7'																							
844							9-10'																							
845						SB-10 @ Alt-1	0-1'																								
846							2-3'																							
847							4-5'																							
848							6-7'																							
849							9-10'																							
850							14-15'																							
851							19-20'																							

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Date: 5-9-13 Time: 1530

RECEIVED BY: (Signature) Date: 5/9/13 Time: 15:30

SAMPLED BY: (Print & Initial) Date: Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

TETRA TECH CONTACT PERSON: Ike

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 33.5

REMARKS:

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

13051001

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: SRO State Unit # 10H Eddy Co. NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
852	5/6		S		X	SB-10 @ AH-1	24-25'	1					
853							29-30'						
854							39-40'						
855						SB-11 @ AH-1	0-1'						
856							2-3'						
857							4-5'						
858							6-7'						
859							9-10'						
860							14-15'						
861						SB-12 @ AH-10	0-1						

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
												X				
												X				

RELINQUISHED BY: (Signature) Date: 5-9-13 Time: 15:30

RECEIVED BY: (Signature) Date: 5/9/13 Time: 15:30

SAMPLED BY: (Print & Initial) TF Date: 5-6-13 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike

Results by:

RECEIVING LABORATORY: Trac

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 33.5

REMARKS:

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

13051001

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: SRO State Unit # 101H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
862	5/6		S		X	SB-12 @ AH-10	2-3'	1																		X				
863							4-5'																							
864							6-7'																							
865							9-10'																							
866							14-15'																							
867							19-20'																							
868							24-25'																							
869	5/7					SB-13 @ AH-11	0-1'																							
870							2-3'																							
871							4-5'																							

RELINQUISHED BY: (Signature)	Date: 5-9-13 Time: 1530	RECEIVED BY: (Signature)	Date: 5/9/13 Time: 15:30
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) TF — Date: 5-6-13 Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: — OTHER:

TETRA TECH CONTACT PERSON: Ike

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED: 33.5

REMARKS:

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

13051001

Analysis Request of Chain of Custody Record

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

PAGE: 10 OF: 11

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05018

PROJECT NAME: SRO State Unit # 10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
872	5/7		S		X	SB-13 @ AH-11	6-7'	1					
873							9-10'						
874							14-15'						
875							19-20'						
876							24-25'						
877							29-30'						
878						SB-14 @ AH-14	0-1'						
879							2-3'						
880							4-5'						
881	↓		↓		↓		6-7'	↓					

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B; TPH 8015 MOD. TX1005 (Ext. to C35); PAH 8270; RCRA Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Vr Pd Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; GC.MS Vol. 8240/8260/624; GC.MS Semi. Vol. 8270/625; PCB's 8080/608; Pest. 808/608; Chloride; Gamma Spec.; Alpha Beta (Air); PLM (Asbestos); Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature) — Date: 5-9-13 Time: 15:30

RECEIVED BY: (Signature) — Date: 5/9/13 Time: 15:30

SAMPLED BY: (Print & Initial) TF — Date: 5-1-13 Time:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS — AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

TETRA TECH CONTACT PERSON: Ike — Results by:

RECEIVING LABORATORY: Trace

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 33.5

REMARKS:

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

1305/1001

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 1

TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 112C05078

PROJECT NAME: SRO State Unit # 10H Eddy Co NM

LAB I.D. NUMBER	DATE 2013	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
882	5/1		S		X	SB-14 @ NH-14 9-10'	1					
883						14-15'						
884						19-20'						
885						24-25'						

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B; TPH 8015 MOD. TX1005 (Ext. to C35); PAH 8270; RCRA Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Vr Pd Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; GC:MS Vol. 8240/8260/624; GC:MS Semi. Vol. 8270/625; PCB's 8080/608; Pest. 808/608; ~~Chloride~~ Cl; Gamma Spec.; Alpha Beta (Air); PLM (Asbestos); Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature) Date: 5-9-13 Time: 1530

RECEIVED BY: (Signature) Date: 5/9/13 Time: 15:30

SAMPLED BY: (Print & Initial) TF Date: 5-1-13 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike

Results by:

RECEIVING LABORATORY: Xenco

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 335

REMARKS:

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