

SITE INFORMATION

Report Type: Closure

General Site Information:

Site:	SRO 102 SWD						
Company:	COG Operating LLC						
Section, Township and Range	Unit G	Sec 16	T26S	R28E			
Lease Number:	API-30-015-21398						
County:	Eddy County						
GPS:	32.04381° N			104.09047° W			
Surface Owner:	State						
Mineral Owner:							
Directions:	South of Malaga at the intersection of Hwy 285 and CR 274 (White City Rd.) travel west on CR 274 for 2.0 miles, turn left and travel 1.6 miles, turn right and travel 0.1 miles to site.						
Release Data:							

RECEIVED

Date Released:	7/21/2012	APR 23 2013
Type Release:	Produced Water	
Source of Contamination:	Fiberglass Header Connection	
Fluid Released:	160 bbls	NMOCD ARTESIA
Fluids Recovered:	100 bbls	

Official Communication:

Name:	Pat Ellis		Ike Tavarez
Company:	COG Operating, LLC		Tetra Tech
Address:	One Concho Center 600 W. Illinois Ave.		1910 N. Big Spring
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		(432) 682-4559
Fax:	(432) 684-7137		
Email:	pellis@conchoresources.com		ike.tavarez@tetrtech.com

Ranking Criteria:

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

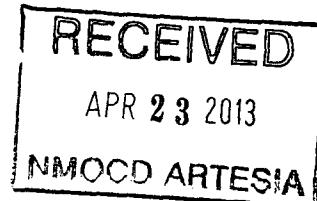
Acceptable Soil RRAV (mg/kg)

Benzene	Total BTEX	TPH
10	50	1,000



TETRA TECH

March 11, 2013



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

Re: Closure Report for the COG Operating LLC., SRO State Unit Com 102 SWD, Unit G, Section 16, 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 Com 102 SWD, Unit G, Section 16, Township 26 South, Range 28 East, Eddy County, New Mexico. (Site). The spill site coordinates are N 32.04424°, W 104.09037 °. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico Oil Conservation Division (NMOCD) Form C-141 Initial Report, the leak was discovered on July 21, 2012, and released approximately 160 barrels of produced water due to a faulty fiberglass header connection. Approximately 100 barrels of produced water was recovered from the spill area. The release occurred outside the lined facility at the header located south of the SWD. The spill area impacted the areas east, west and south on the SWD pad. The produced water migrated approximately 1,700' into the pasture, with a width of approximately 2.0' to 5.0'. A second leg migrated on the lease road measuring approximately 1,000', with a width of approximately 1'0 to 2'0 wide. The initial Form C-141 is enclosed in Appendix A.

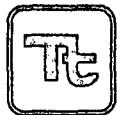
Hydrogeology and Groundwater

According to the Geology and Groundwater Resources of Eddy County, New Mexico (Report 3), the Rustler and Castile formation (Ochoa Series) is present west and east of the Pecos River. The Salado formation overlies the Castile formation east of the Pecos River and was removed by solution west of the river. The Rustler and Castile formations consist of anhydrite, gypsum, interbedded sandy clay and beds of dolomite. Groundwater from the Castile and Rustler formations west of the

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com



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Pecos River is historically high in chloride and sulfate concentrations which increase towards the river.

According to the USGS, no water wells are listed in Section 16. One water well is reported in Section 18, with a depth to groundwater of 25' bgs. According to the NMOCD groundwater map the reported depth to groundwater in this area is approximately 80.0' below surface. The groundwater data is shown in Appendix B.

Regulatory

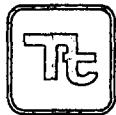
A risk-based evaluation was performed for the Site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment

On August 28, 2012, Tetra Tech personnel inspected and sampled the spill area. A total of twenty-five (25) auger holes (AH-1 through AH-25) were installed using a stainless steel hand auger to assess the impacted soils. Due to the material (sand and gravel), samples were not collected on the facility 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. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Referring to Table 1, all of the auger holes were below the RRAL for TPH and BTEX. Elevated chloride concentrations were detected in the majority of the auger holes showing a shallow impact to the subsurface soils. The elevated chlorides in the soils ranged from 2,000 mg/kg to 13,000 mg/kg, which significantly declined with depth at approximately 1.0' to 2.0' below surface. In the areas of AH-2, AH-4, AH-8, AH-13, AH-15 and AH-18, the bottom auger hole samples showed chloride concentrations of 2,720 mg/kg (6.5'), 1,120 mg/kg (6.0'), 1,110 mg/kg (4.0'), 1,470 mg/kg (5.0'), 1,900 mg/kg (2.5') and 1,080 mg/kg (5.0'), respectively.

On a previous assessment performed at the facility, a background borehole (BG-1) was installed to collect background chloride samples and detected a chloride high of 1,030 mg/kg at 14-15' below surface. Based on the results, some of the bottom hole samples appear to be at or near background concentrations. The background sample results are shown in Table 1.



Remediation Activities

On October 16, 2012, Tetra Tech personnel supervised the excavation of the spill area. The spill footprint and final excavation depths of the soil remediation were met as stated in the approved work plan. The excavated areas and depths are highlighted in Table 1 and shown on Figure 4. The excavation depths ranged from 1.0' to 6.0' below surface.

As proposed in the work plan, a total of seven (7) trenches (T-1 through T-7) were installed in the spill area. Trenches (T-1, T-2 and T-3) were installed in the areas of AH-2, AH-13 and AH-15, respectively. The remaining trenches were installed in the facility pad. The trench sampling results are summarized in Table 1. Trenches (T-1, T-2 and T-3) did show a declining chloride with depth. Due to the active flow line, the area of AH-2 was excavated to depth of 4.0' below surface. Once excavated, a 40 mil liner was installed in the excavation bottom to cap the remaining impact.

On the east side of the SWD, trenches (T-4 and T-5) were not vertically defined showing bottom chloride concentrations of 2,660 mg/kg at 10.0' and 3,700 mg/kg at 7.0', respectively. However, the west side area of T-6 and T-7 did decline with depth to approximately 1,500 mg/kg at 10.0' below surface. Based on the results, the east areas (T-4 and T-5) were excavated to depths of 6.0' and 5.0' at the west area (T-6 and T-7) and south of the facility. Deeper excavation was not performed due to safety concerns around the facility equipment. Once excavated, the areas were capped with 40 mil liner at 4.0' below surface and backfilled with clean soil.

Approximately 880 cubic yards were removed and disposed of at R360 facility. Once the excavation depths were achieved, the excavated areas were then backfilled with clean material to grade. The areas in the pasture were ripped, windrows were installed and the area was seeded.

On January 18, 2013, Tetra Tech personnel supervised the installation of three (3) soil borings in the areas of T-4, T-5 and T-7 to define the vertical extents. Referring to Table 1, SB-1 (T-4), SB-2 (T-5) and SB-3 (T-7) showed a significant declined at 25.0 to 30.0' below surface.



TETRA TECH

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

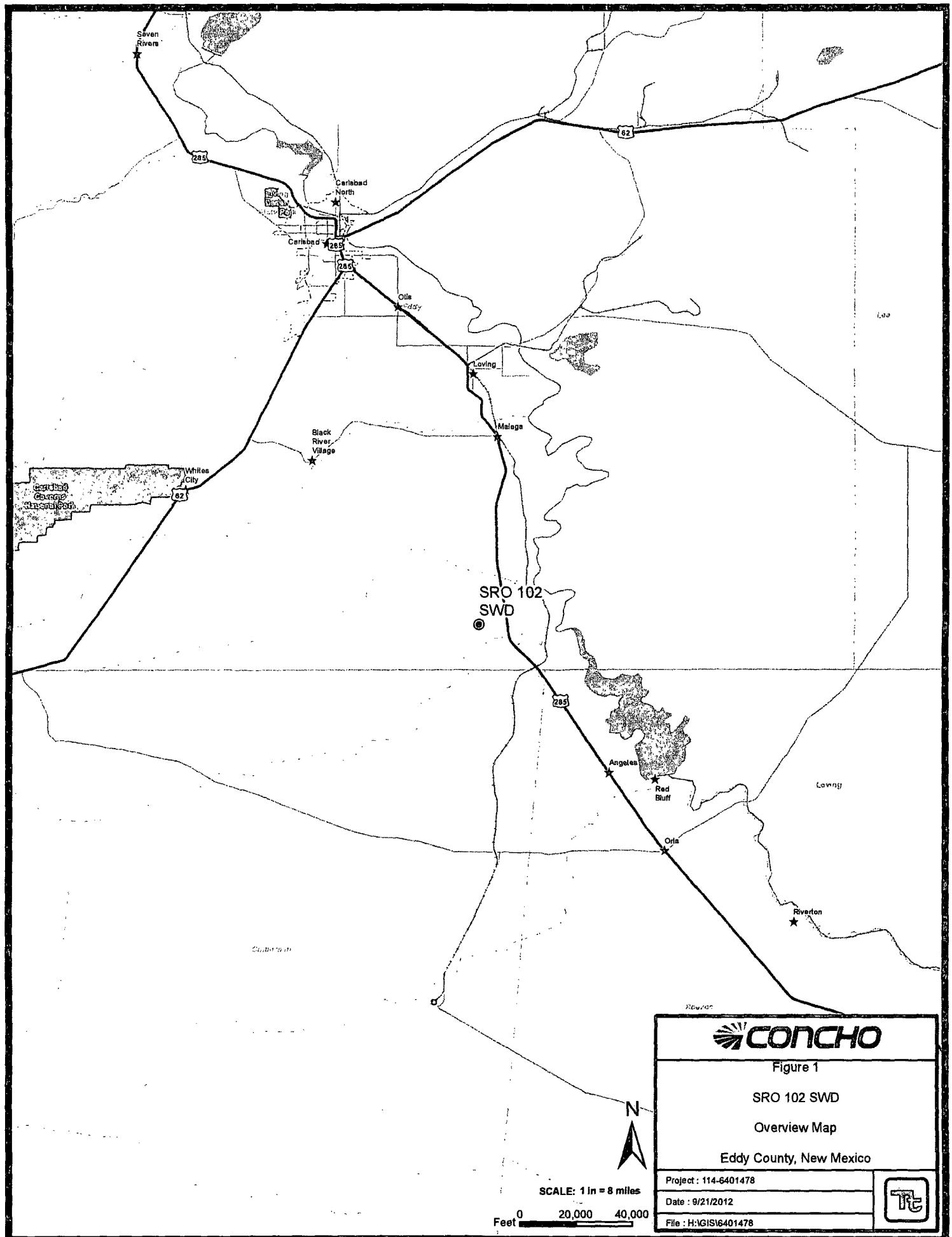
Respectfully submitted,
TETRA TECH

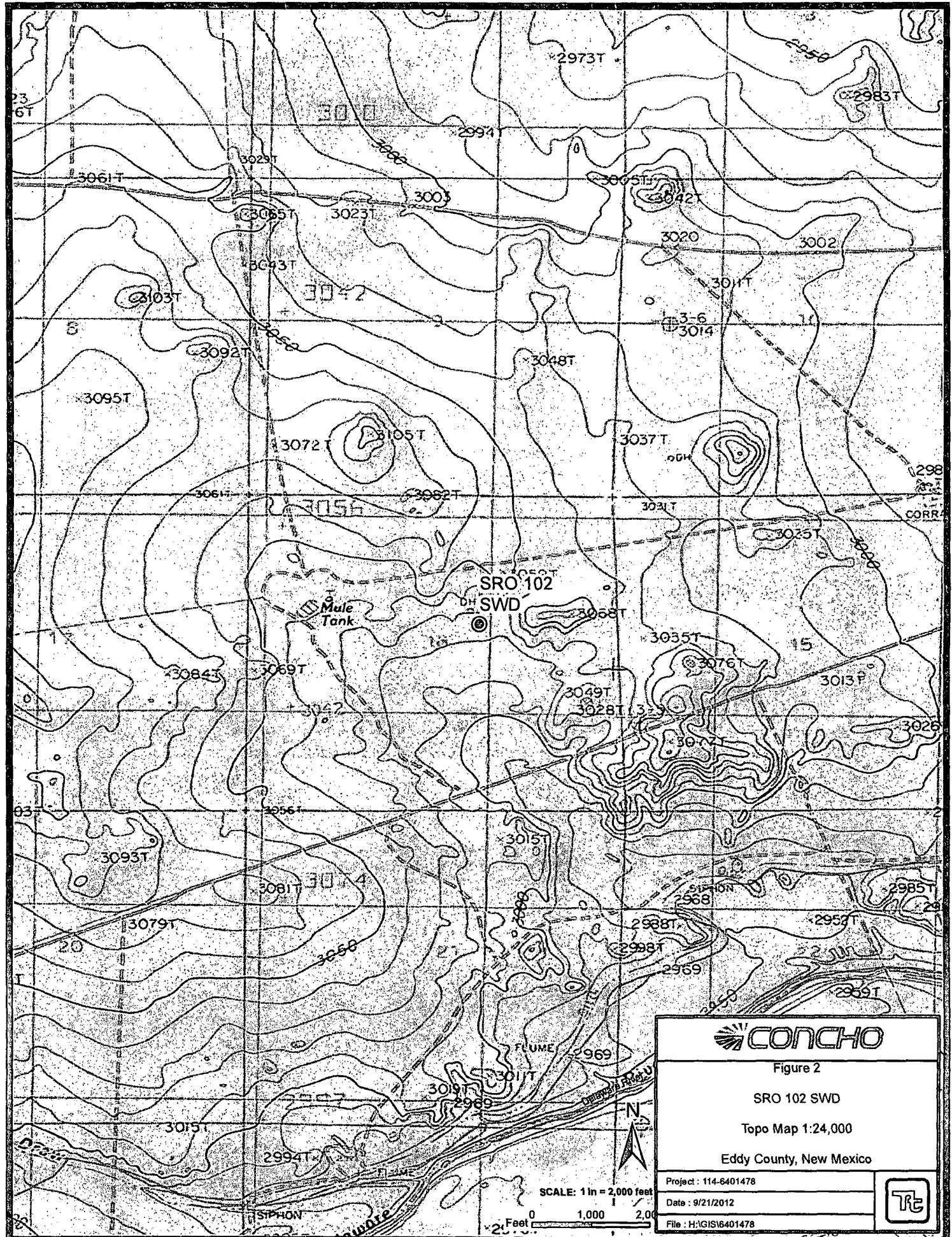
A handwritten signature in black ink, appearing to read "Mike Tavarez".

Mike Tavarez
Senior Project Manager

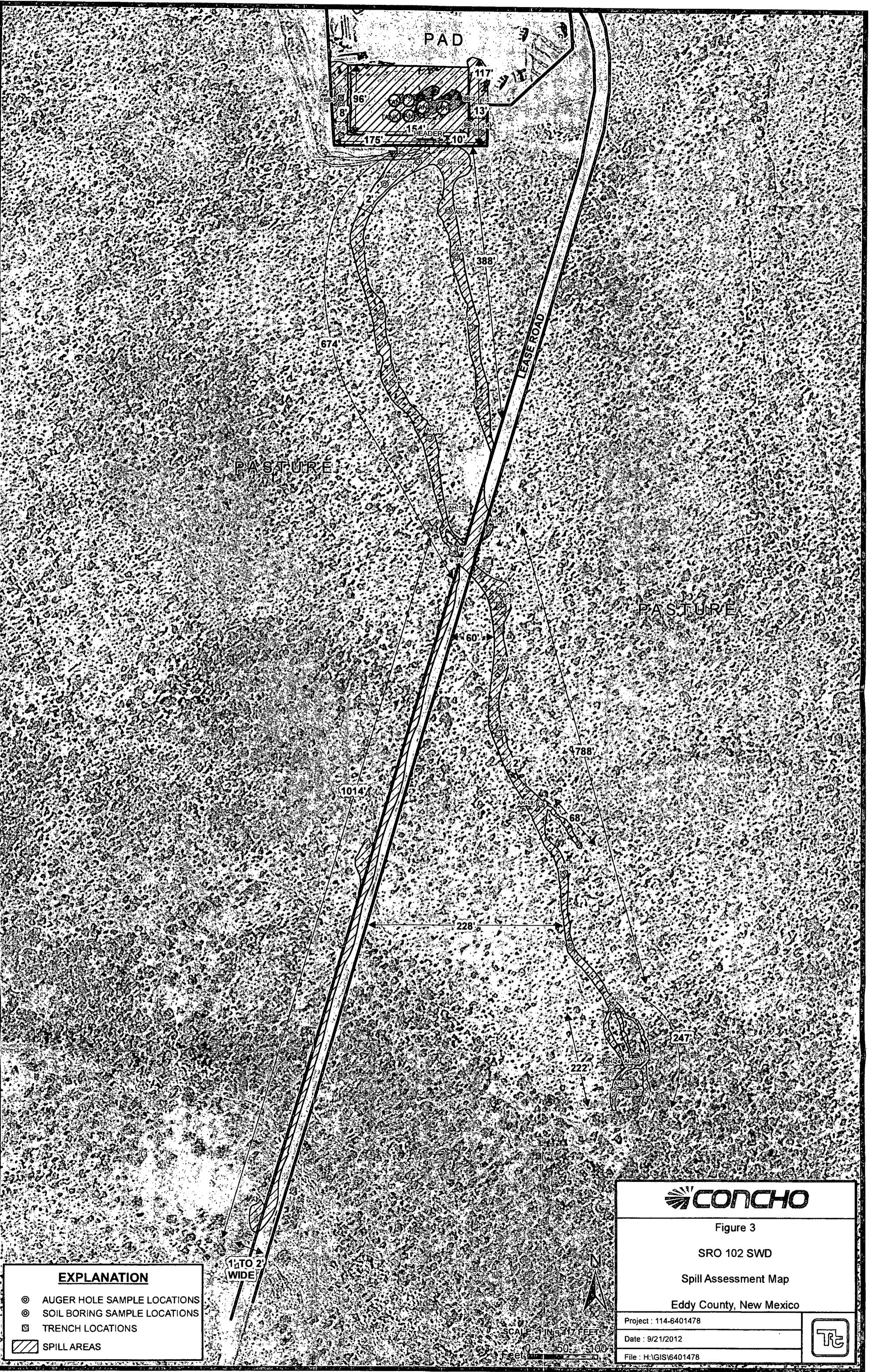
cc: Pat Ellis – COG

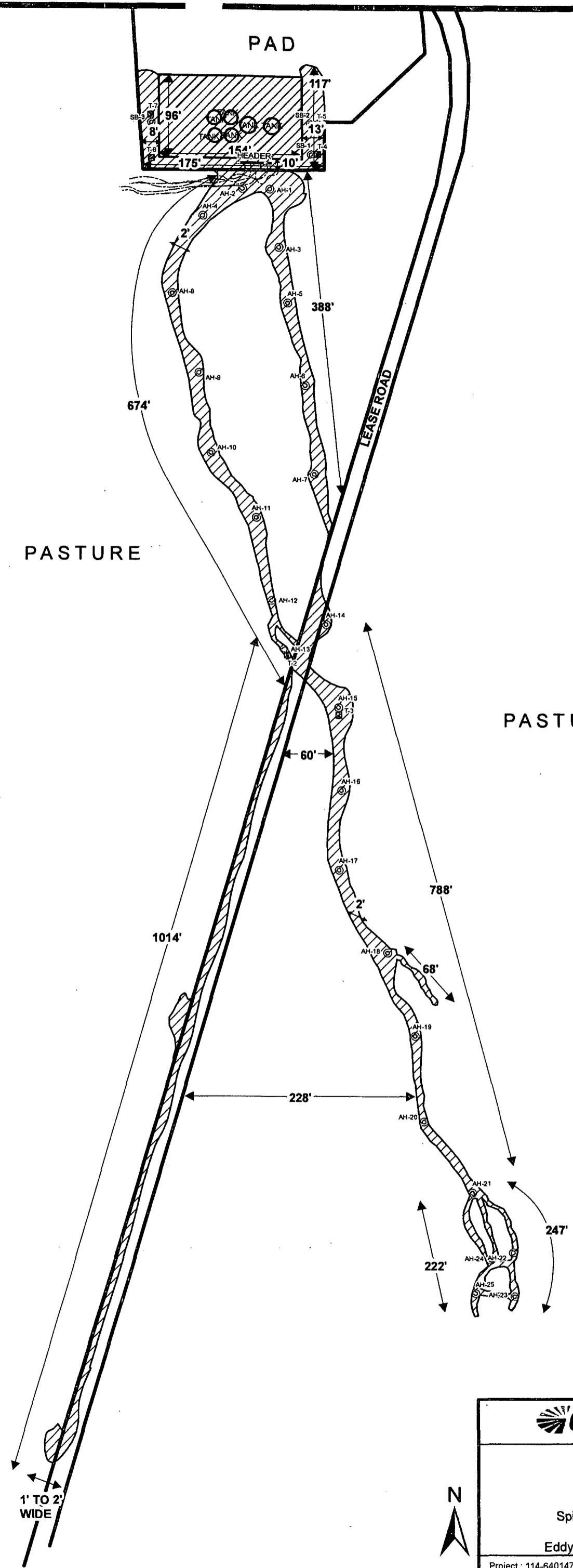
Figures





Drawn By: Isabell Mammoiso





CONCHO

Figure 3

SRO 102 SWD

Spill Assessment Map

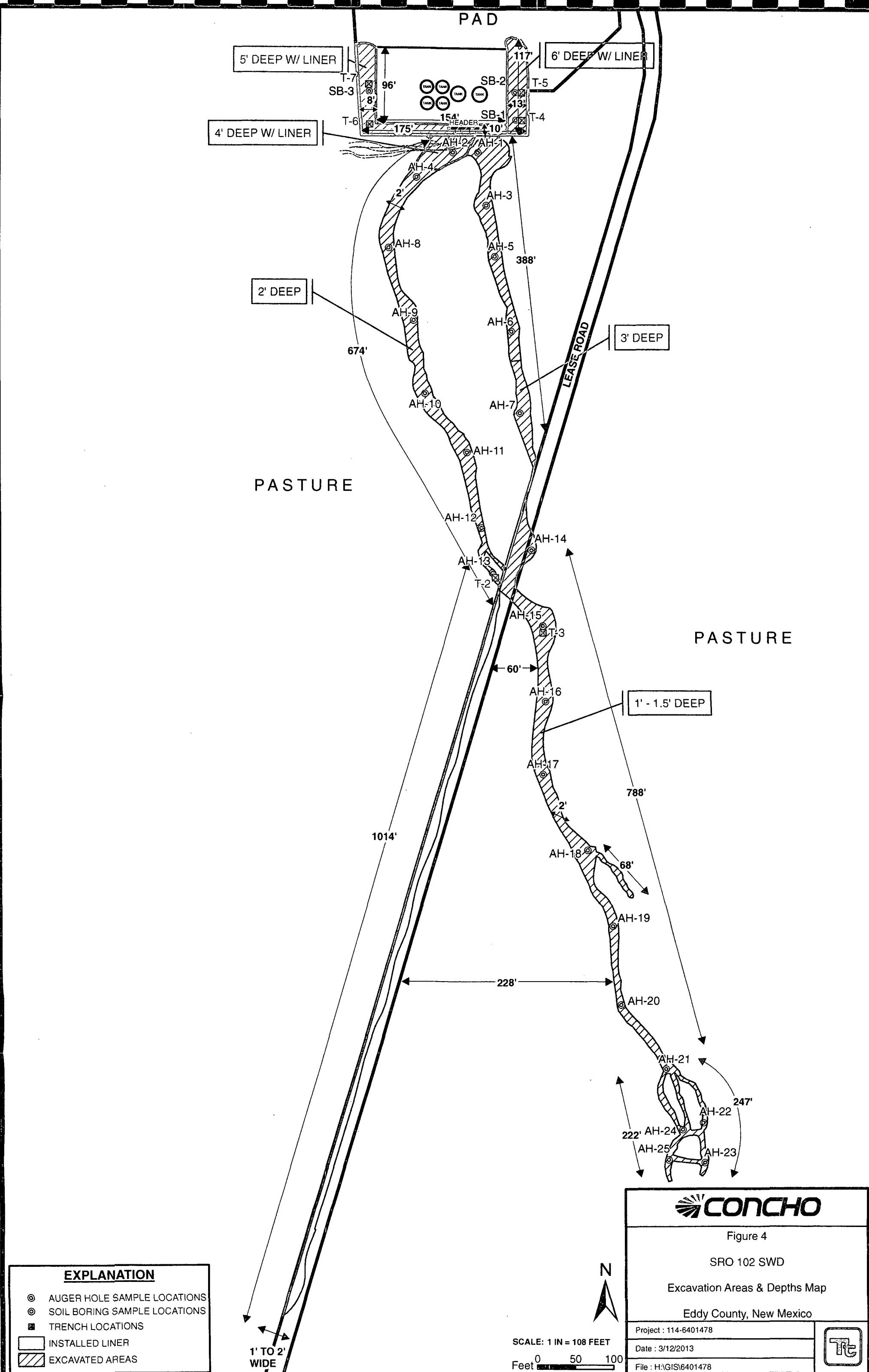
Eddy County, New Mexico

Project : 114-6401478

Date : 9/21/2012

File : H:\GIS\6401478





Tables

**Table 1
COG Operating
SRO 102 Salt Water Disposal
Eddy County, New Mexico**

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Sample ID	Sample Date	Sample 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-16	8/29/2012	0-1		X	<4.00	<50.0	<50.0						1,930
	"	1-1.5		X	-	-	-						5,480
	"	2-2.5	X	-	-	-	-						686
	"	3-3.5	X	-	-	-	-						137
AH-17	8/29/2012	0-1		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	9,680
	"	1-1.5		X	-	-	-						6,410
	"	2-2.5	X	-	-	-	-						240
	"	3-3.5	X	-	-	-	-						260
AH-18	8/29/2012	0-1		X	<4.00	<50.0	<50.0						7,120
	"	1-1.5	X	-	-	-	-						615
	"	2-2.5	X	-	-	-	-						649
	"	3-3.5	X	-	-	-	-						484
	"	4-4.5	X	-	-	-	-						765
	"	5-5.5	X	-	-	-	-						1,080
AH-19	8/30/2012	0-1		X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	8,300
	"	1-1.5		X	-	-	-						5,880
	"	2-2.5	X	-	-	-	-						184

**Table 1
COG Operating
SRO 102 Salt Water Disposal
Eddy County, New Mexico**

Sample ID	Sample Date	Sample 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-20	8/30/2012	0-1	X	X	<4.00	<50.0	<50.0						3,420
	"	1-1.5	X		-	-	-						59.4
	"	2-2.5	X		-	-	-						109
AH-21	8/30/2012	0-1	X	X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	5,060
	"	1-1.5		X									100
	"	2-2.5	X		-	-	-						1,520
	"	3-3.5	X		-	-	-						158
AH-22	8/30/2012	0-1	X	X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,320
	"	1-1.5	X		-	-	-						514
	"	2-2.5	X		-	-	-						178
AH-23	8/30/2012	0-1	X	X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	7,670
	"	1-1.5	X		-	-	-						796
	"	2-2.5	X		-	-	-						252
AH-24	8/30/2012	0-1	X	X	<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	11,100
	"	1-1.5		X									7,150
	"	2-2.5	X		-	-	-						184
	"	3-3.5	X		-	-	-						165
	"	4-4.5	X		-	-	-						150
	"	5-5.5	X		-	-	-						170
	"	6-6.5	X		-	-	-						243
	"	7-7.5	X		-	-	-						451
	"	8-8.5	X		-	-	-						698

Table 1
COG Operating
SRO 102 Salt Water Disposal
Eddy County, New Mexico

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Sample ID	Sample Date	Sample 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						
Trench-6 Southwest liner	10/25/2012	Surface		X									3,080
	"	2		X									6,640
	"	4		X									4,440
	"	6	X		-	-	-	-	-	-	-	-	991
	"	8	X		-	-	-	-	-	-	-	-	2,630
	"	10	X		-	-	-	-	-	-	-	-	1,540
Trench-7 West liner	10/25/2012	Surface		X									33,800
	"	2		X									20,000
	"	4		X									4,330
	"	6	X		-	-	-	-	-	-	-	-	3,630
	"	8	X		-	-	-	-	-	-	-	-	1,650
	"	10	X		-	-	-	-	-	-	-	-	1,520
SB-3	1/17/2013	6-7	X		-	-	-	-	-	-	-	-	2,300
	"	9-10	X		-	-	-	-	-	-	-	-	1,310
	"	14-15	X		-	-	-	-	-	-	-	-	877
	"	19-20	X		-	-	-	-	-	-	-	-	1,880
	"	24-25	X		-	-	-	-	-	-	-	-	663
	"	29-30	X		-	-	-	-	-	-	-	-	913
	"	39-40	X		-	-	-	-	-	-	-	-	757
	"	49-50	X		-	-	-	-	-	-	-	-	113

(-) Not Analyzed

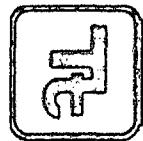
BG Background

Page 4 Excavation Depths

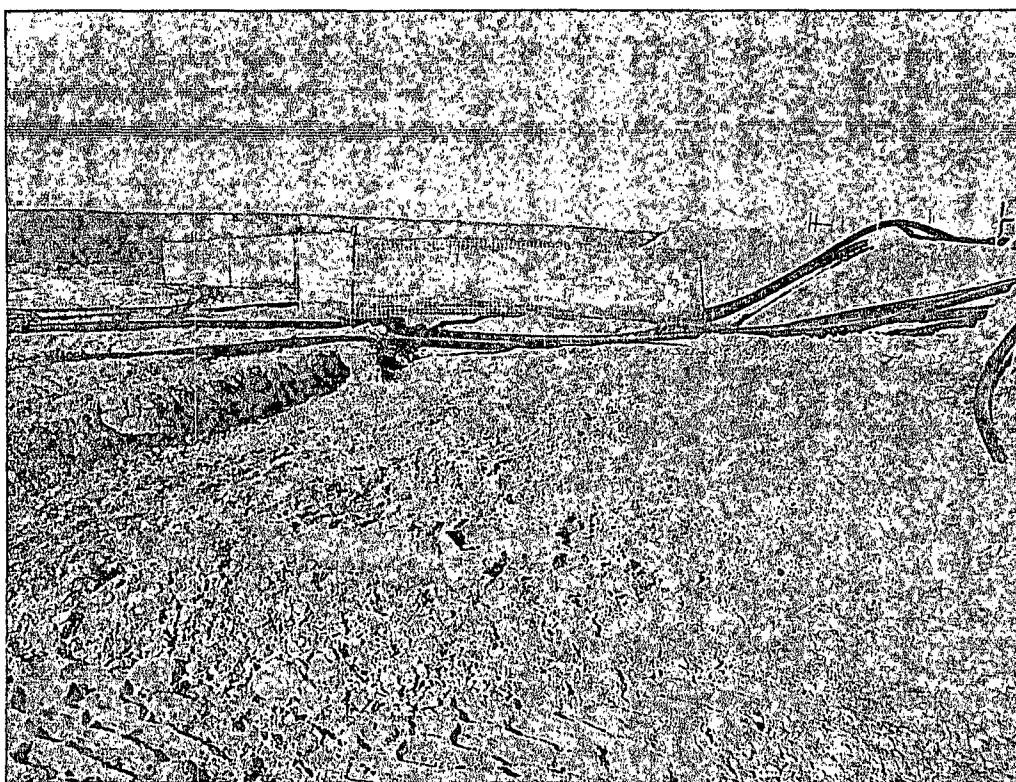
40 mil liner

Photos

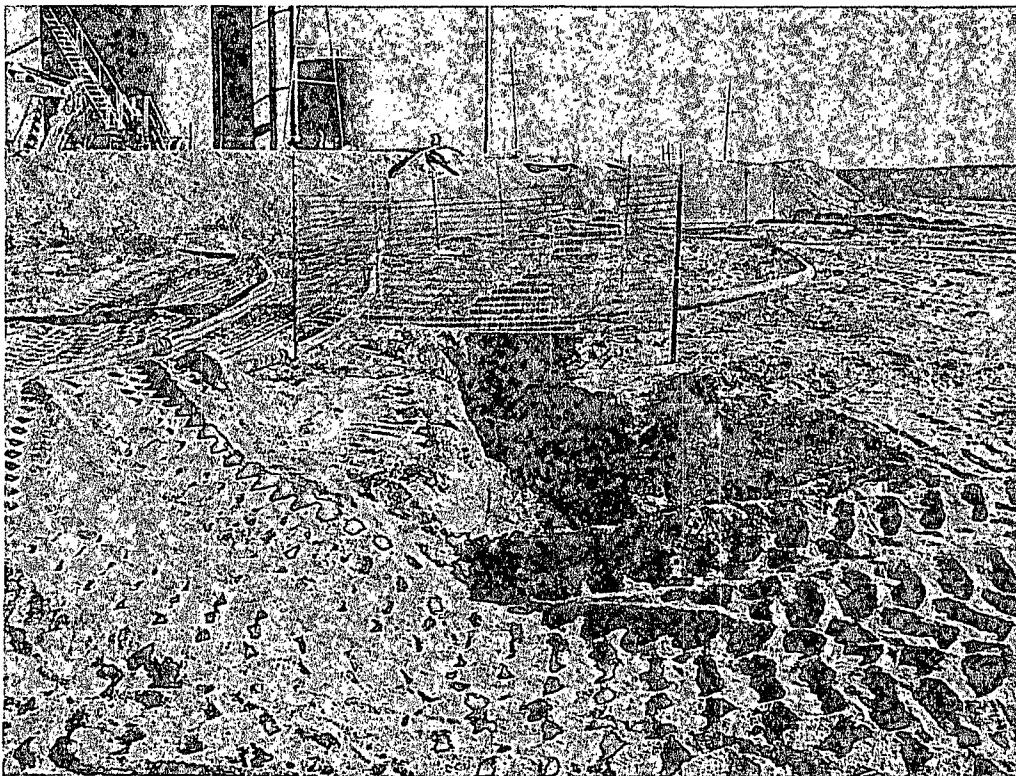
COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



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View West – Area of AH-1 and AH-2



View East – Area of AH-4 and AH-2

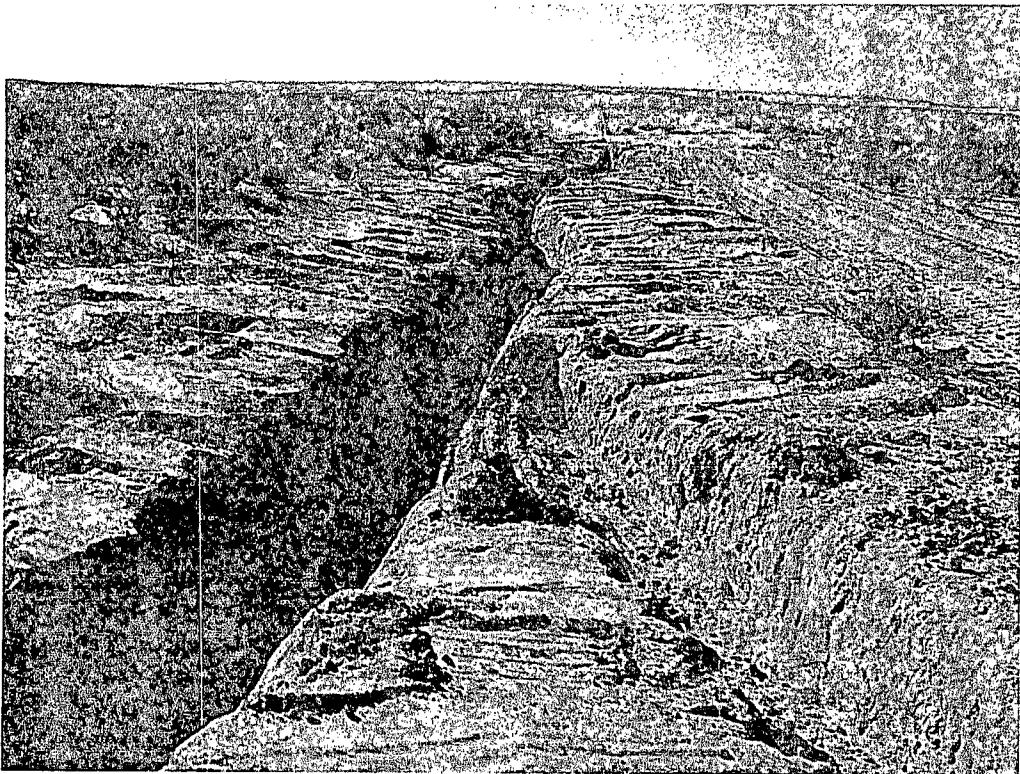
COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



TETRA TECH



View South – Area of AH-3 and AH-5

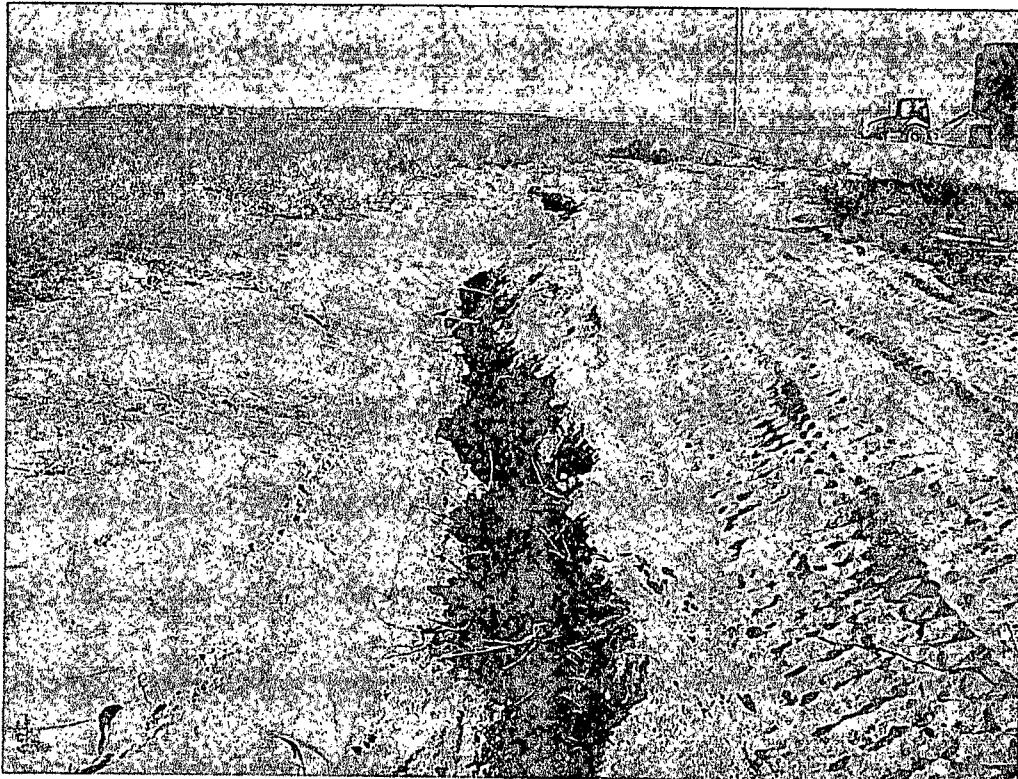


View Southeast – Area of AH-6 and AH-7

COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



TETRA TECH



View North – Area of AH-9 and AH-8

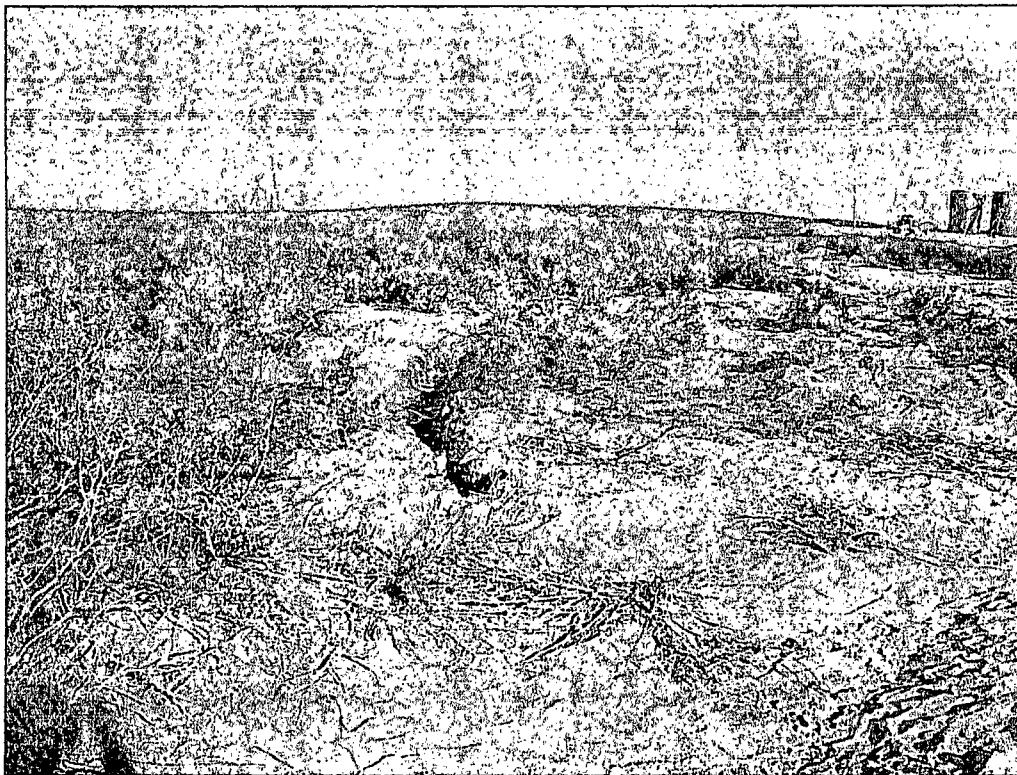


View North – Area of AH-11 and AH-10

COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



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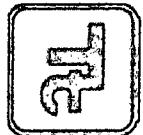


View North – Area of AH-13 and AH-12



View Southeast – Area of AH-15 and AH-16

COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



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View Southeast – Area of AH-17 and AH-18



View South – Area of AH-19 and AH-20

COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



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View South – Area of AH-21

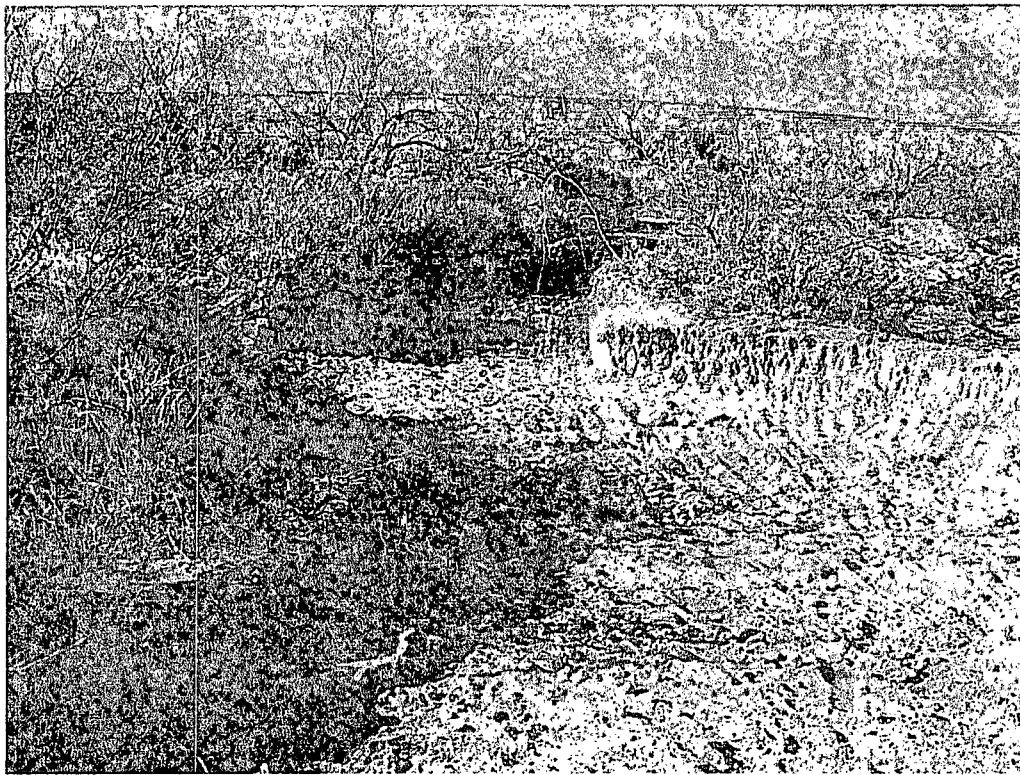


View South – Area of AH-24 and AH-22

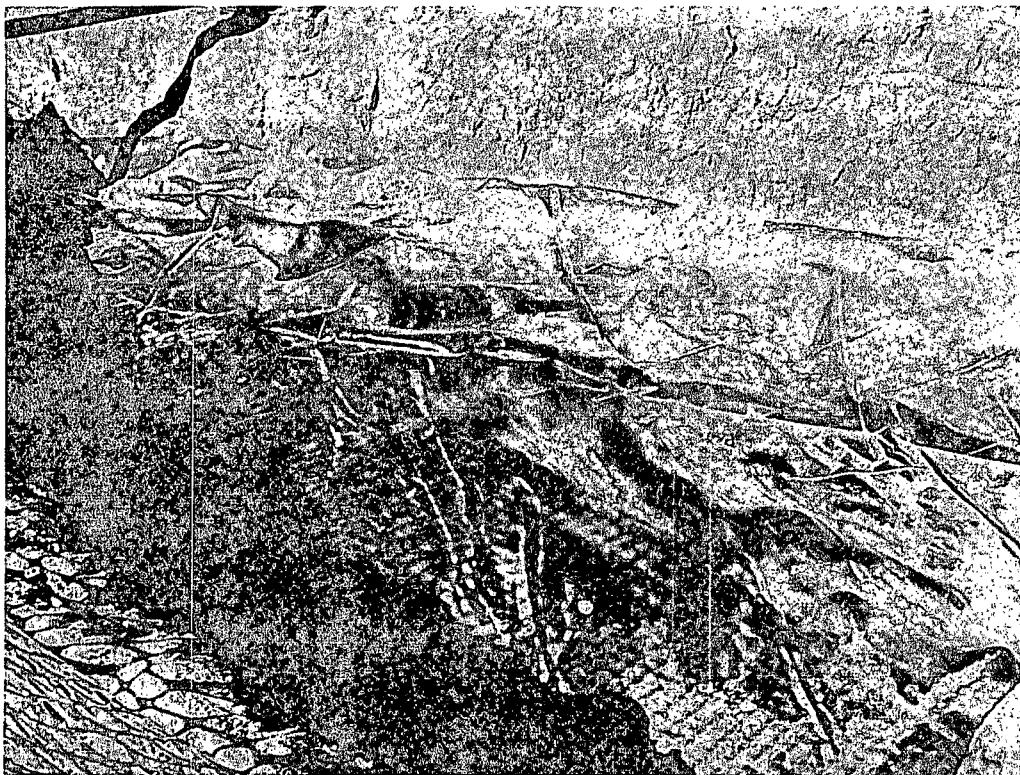
COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



TETRATECH



View South – Area of AH-23 and AH-25

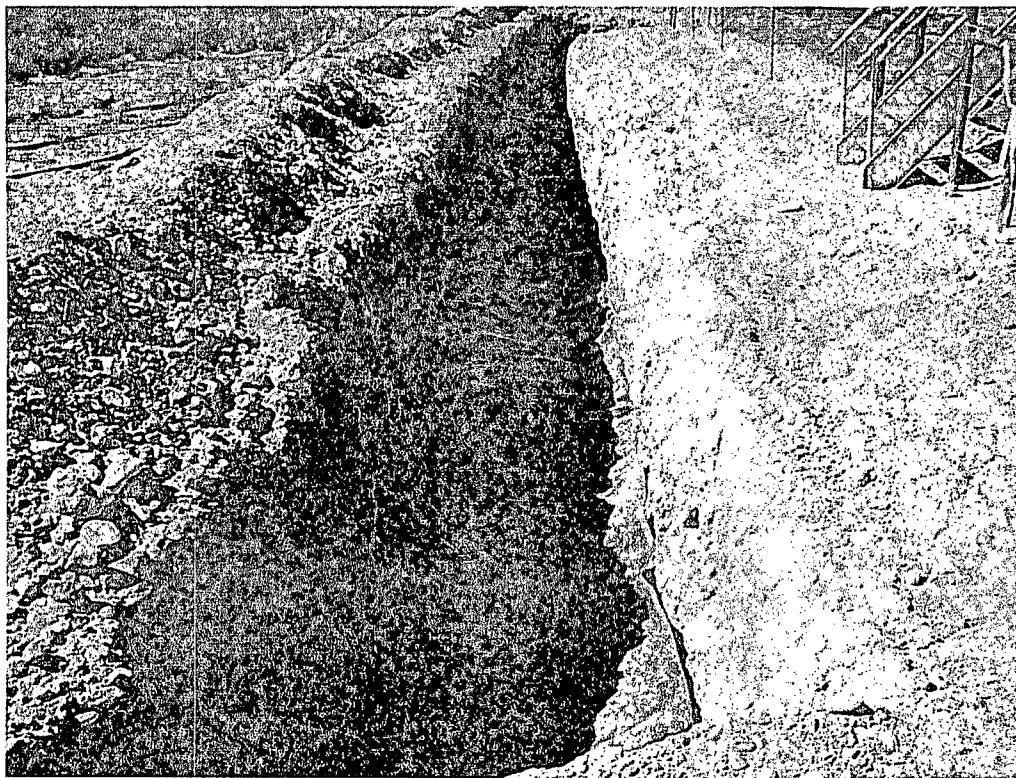


View North – Lined area of AH-2

COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



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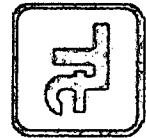


View West – Lined area of Leak Source

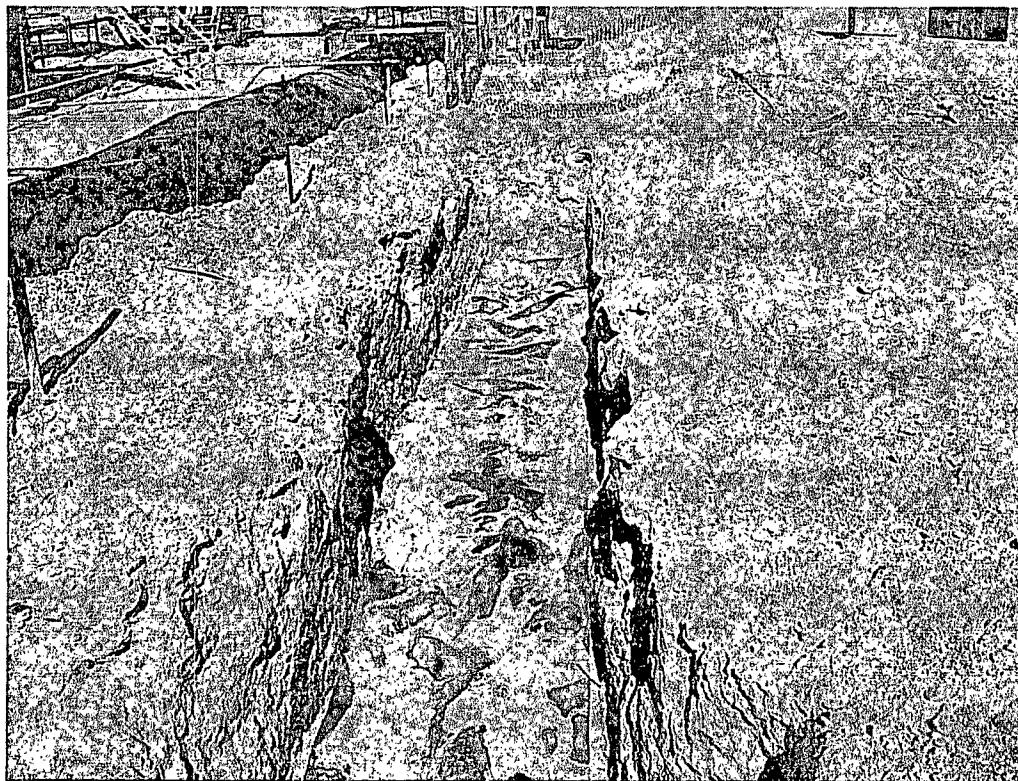


View South – Lined area of T-6, T-7 and SB-3

COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



TETRA TECH



View North – Lined area of T-4, T-5 and SB-1, SB-2

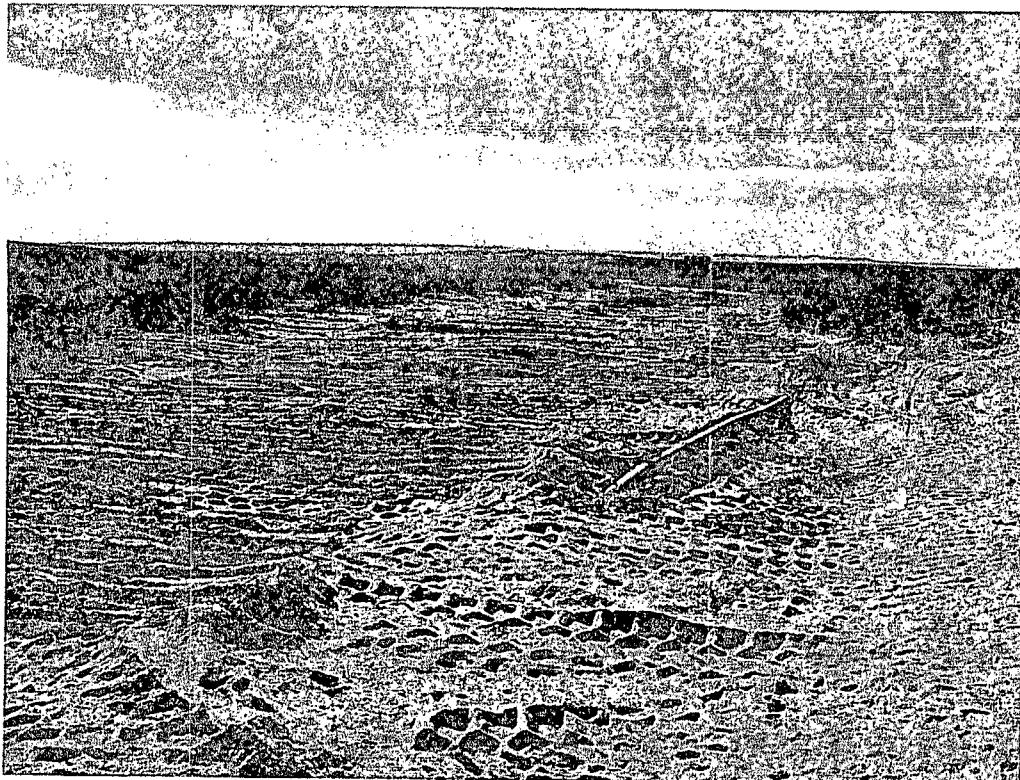


View South - Backfill

COG Operating LLC
SRO 102 SWD
Eddy County, New Mexico



TETRA TECH



View Southeast - Backfill

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

RECEIVED

Form C-141

Revised October 10, 2003

APR 23 2013

NMOCD ARTESIA

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	Pat Ellis
Address	600 W. Illinois Ave., Midland, TX 79701	Telephone No.	(432) 230-0077
Facility Name	SRO 102 SWD	Facility Type	SWD
Surface Owner: State	Mineral Owner		Lease No. (API#) 30-015-21398

LOCATION OF RELEASE

Unit Letter G	Section 16	Township 26S	Range 28E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	----------------

Latitude N 32.04381° Longitude W 104.09047°

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 160 bbls	Volume Recovered 100 bbls
Source of Release: Fiberglass Header Connection	Date and Hour of Occurrence 07/21/2012	Date and Hour of Discovery 07/21/2012 4:00 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-OCD	
By Whom? Michelle Mullins	Date and Hour 07/22/2012 12:45 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

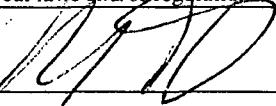
A fiberglass connection failed at the inlet header on the south side of the SWD. The connection is being repaired.

Describe Area Affected and Cleanup Action Taken.*

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

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:	
Printed Name: Ike Tavarez		
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:	
Date: 3-11-13	Attached <input type="checkbox"/>	
Phone: (432) 682-4559		

* Attach Additional Sheets If Necessary

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	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	SRO 102 SWD	Facility Type	SWD
Surface Owner	Mineral Owner		Lease No. (API#) 30-015-21398

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	16	26S	28E					Eddy

Latitude 32 02.657 Longitude 104 05.431

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	160bbls	Volume Recovered	100bbls
Source of Release	Fiberglass header connection	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Michelle Mullins	Mike Bratcher-OCD			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date and Hour	07/22/2012 12:45 p.m.	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

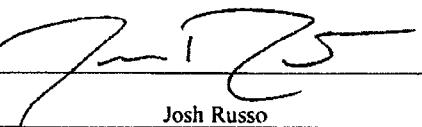
Describe Cause of Problem and Remedial Action Taken.*

A fiberglass connection failed at the inlet header on the south side of the SWD. The connection is being repaired.

Describe Area Affected and Cleanup Action Taken.*

Initially 160bbls were released from the failed connection and were able to recover 100bbls with a vacuum truck. Some of the fluid was contained inside the dike walls on the south side of the facility. Some of the fluid escaped the dike walls and streamed to a low lying area to the south of the location in the pasture. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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:			
Printed Name:	Approved by District Supervisor:		
Title:	HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address:	jrusso@conchoresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	08/01/2012	Phone:	432-212-2399

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - SRO 102 SWD
Eddy County, New Mexico

24 South 27 East

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

24 South 28 East

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

24 South 29 East

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

25 South 28 East

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

25 South 29 East

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

26 South 27 East

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

26 South 28 East

6	5	4	3	2	1
120					
7	8	9	10	11	12
			100		
18	17	16	15	14	13
25	SITE	120	120	56	
19	20	21	22	23	24
		120			
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	15	14	13
19	20	21	22	57	23
			69		
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: September 17, 2012

Work Order: 12090405



Project Location: Eddy Co., NM
 Project Name: COG/SRO 102 SWD
 Project Number: 114-6401478

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
308336	AH-1 0-1'	soil	2012-08-28	00:00	2012-08-31
308337	AH-1 1-1.5'	soil	2012-08-28	00:00	2012-08-31
308338	AH-1 2-2.5'	soil	2012-08-28	00:00	2012-08-31
308339	AH-1 3-3.5'	soil	2012-08-28	00:00	2012-08-31
308340	AH-1 4-4.5'	soil	2012-08-28	00:00	2012-08-31
308341	AH-1 5-5.5'	soil	2012-08-28	00:00	2012-08-31
308342	AH-2 0-1'	soil	2012-08-28	00:00	2012-08-31
308343	AH-2 1-1.5'	soil	2012-08-28	00:00	2012-08-31
308344	AH-2 2-2.5'	soil	2012-08-28	00:00	2012-08-31
308345	AH-2 3-3.5'	soil	2012-08-28	00:00	2012-08-31
308346	AH-2 4-4.5'	soil	2012-08-28	00:00	2012-08-31
308347	AH-2 5-5.5'	soil	2012-08-28	00:00	2012-08-31
308348	AH-2 6.5-7'	soil	2012-08-28	00:00	2012-08-31
308349	AH-3 0-1'	soil	2012-08-28	00:00	2012-08-31
308350	AH-3 1-1.5'	soil	2012-08-28	00:00	2012-08-31
308351	AH-3 2-2.5'	soil	2012-08-28	00:00	2012-08-31
308352	AH-3 3.-3.5'	soil	2012-08-28	00:00	2012-08-31
308353	AH-3 4-4.5'	soil	2012-08-28	00:00	2012-08-31
308354	AH-3 5-5.5'	soil	2012-08-28	00:00	2012-08-31
308355	AH-3 6-6.5'	soil	2012-08-28	00:00	2012-08-31
308356	AH-4 0-1'	soil	2012-08-28	00:00	2012-08-31
308357	AH-4 1-1.5'	soil	2012-08-28	00:00	2012-08-31
308358	AH-4 2-2.5'	soil	2012-08-28	00:00	2012-08-31
308359	AH-4 3-3.5'	soil	2012-08-28	00:00	2012-08-31
308360	AH-4 4-4.5'	soil	2012-08-28	00:00	2012-08-31
308361	AH-4 5-5.5'	soil	2012-08-28	00:00	2012-08-31
308362	AH-4 6-6.5'	soil	2012-08-28	00:00	2012-08-31
308363	AH-5 0-1'	soil	2012-08-29	00:00	2012-08-31
308364	AH-5 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308365	AH-5 2-2.5'	soil	2012-08-29	00:00	2012-08-31

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
308366	AH-5 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308367	AH-5 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308368	AH-5 4.5-5'	soil	2012-08-29	00:00	2012-08-31
308369	AH-6 0-1'	soil	2012-08-29	00:00	2012-08-31
308370	AH-6 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308371	AH-6 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308372	AH-6 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308373	AH-6 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308374	AH-6 4.5-5'	soil	2012-08-29	00:00	2012-08-31
308375	AH-7 0-1'	soil	2012-08-29	00:00	2012-08-31
308376	AH-7 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308377	AH-7 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308378	AH-7 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308379	AH-7 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308380	AH-7 5-5.5'	soil	2012-08-29	00:00	2012-08-31
308381	AH-8 0-1'	soil	2012-08-29	00:00	2012-08-31
308382	AH-8 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308383	AH-8 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308384	AH-8 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308385	AH-8 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308386	AH-9 0-1'	soil	2012-08-29	00:00	2012-08-31
308387	AH-9 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308388	AH-9 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308389	AH-9 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308390	AH-9 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308391	AH-9 5-5.5'	soil	2012-08-29	00:00	2012-08-31
308392	AH-10 0-1'	soil	2012-08-29	00:00	2012-08-31
308393	AH-10 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308394	AH-10 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308395	AH-10 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308396	AH-10 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308397	AH-10 5-5.5'	soil	2012-08-29	00:00	2012-08-31
308398	AH-11 0-1'	soil	2012-08-29	00:00	2012-08-31
308399	AH-11 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308400	AH-11 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308401	AH-11 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308402	AH-11 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308403	AH-11 4.5-5'	soil	2012-08-29	00:00	2012-08-31
308404	AH-12 0-1'	soil	2012-08-29	00:00	2012-08-31
308405	AH-12 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308406	AH-12 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308407	AH-12 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308408	AH-12 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308409	AH-12 5-5.5'	soil	2012-08-29	00:00	2012-08-31
308410	AH-13 0-1'	soil	2012-08-29	00:00	2012-08-31
308411	AH-13 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308412	AH-13 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308413	AH-13 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308414	AH-13 4-4.5'	soil	2012-08-29	00:00	2012-08-31

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
308415	AH-13 5-5.5'	soil	2012-08-29	00:00	2012-08-31
308416	AH-14 0-1'	soil	2012-08-29	00:00	2012-08-31
308417	AH-14 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308418	AH-14 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308419	AH-14 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308420	AH-14 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308421	AH-14 5-5.5'	soil	2012-08-29	00:00	2012-08-31
308422	AH-15 0-1'	soil	2012-08-29	00:00	2012-08-31
308423	AH-15 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308424	AH-15 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308425	AH-15 2.5-3'	soil	2012-08-29	00:00	2012-08-31
308426	AH-16 0-1'	soil	2012-08-29	00:00	2012-08-31
308427	AH-16 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308428	AH-16 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308429	AH-16 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308430	AH-17 0-1'	soil	2012-08-29	00:00	2012-08-31
308431	AH-17 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308432	AH-17 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308433	AH-17 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308434	AH-18 0-1'	soil	2012-08-29	00:00	2012-08-31
308435	AH-18 1-1.5'	soil	2012-08-29	00:00	2012-08-31
308436	AH-18 2-2.5'	soil	2012-08-29	00:00	2012-08-31
308437	AH-18 3-3.5'	soil	2012-08-29	00:00	2012-08-31
308438	AH-18 4-4.5'	soil	2012-08-29	00:00	2012-08-31
308439	AH-18 5-5.5'	soil	2012-08-29	00:00	2012-08-31
308440	AH-19 0-1'	soil	2012-08-30	00:00	2012-08-31
308441	AH-19 1-1.5'	soil	2012-08-30	00:00	2012-08-31
308442	AH-19 2-2.5'	soil	2012-08-30	00:00	2012-08-31
308443	AH-20 0-1'	soil	2012-08-30	00:00	2012-08-31
308444	AH-20 1-1.5'	soil	2012-08-30	00:00	2012-08-31
308445	AH-20 2-2.5'	soil	2012-08-30	00:00	2012-08-31
308446	AH-21 0-1'	soil	2012-08-30	00:00	2012-08-31
308447	AH-21 1-1.5'	soil	2012-08-30	00:00	2012-08-31
308448	AH-21 2-2.5'	soil	2012-08-30	00:00	2012-08-31
308449	AH-21 3-3.5'	soil	2012-08-30	00:00	2012-08-31
308450	AH-22 0-1'	soil	2012-08-30	00:00	2012-08-31
308451	AH-22 1-1.5'	soil	2012-08-30	00:00	2012-08-31
308452	AH-22 2-2.5'	soil	2012-08-30	00:00	2012-08-31
308453	AH-23 0-1'	soil	2012-08-30	00:00	2012-08-31
308454	AH-23 1-1.5'	soil	2012-08-30	00:00	2012-08-31
308455	AH-23 2-2.5'	soil	2012-08-30	00:00	2012-08-31
308456	AH-24 0-1'	soil	2012-08-30	00:00	2012-08-31
308457	AH-24 1-1.5'	soil	2012-08-30	00:00	2012-08-31
308458	AH-24 2-2.5'	soil	2012-08-30	00:00	2012-08-31
308459	AH-24 3-3.5'	soil	2012-08-30	00:00	2012-08-31
308460	AH-24 4-4.5'	soil	2012-08-30	00:00	2012-08-31
308461	AH-24 5-5.5'	soil	2012-08-30	00:00	2012-08-31
308462	AH-24 6-6.5'	soil	2012-08-30	00:00	2012-08-31
308463	AH-24 7-7.5'	soil	2012-08-30	00:00	2012-08-31

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
308464	AH-24 8-8.5'	soil	2012-08-30	00:00	2012-08-31
308465	AH-25 0-1'	soil	2012-08-30	00:00	2012-08-31
308466	AH-25 1-1.5'	soil	2012-08-30	00:00	2012-08-31
308467	AH-25 2-2.5'	soil	2012-08-30	00:00	2012-08-31
308468	AH-2 6-6.5'	soil	2012-08-30	00:00	2012-08-31

Sample - Field Code	BTEX				TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		
308336 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308342 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308349 - AH-3 0-1'					<50.0	<4.00
308356 - AH-4 0-1'					<50.0	<4.00
308363 - AH-5 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308369 - AH-6 0-1'					<50.0	<4.00 Qs
308375 - AH-7 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
308381 - AH-8 0-1'					<50.0	<4.00 Qs
308386 - AH-9 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308392 - AH-10 0-1'					<50.0	<4.00 Qs
308398 - AH-11 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308404 - AH-12 0-1'					<50.0	<4.00
308410 - AH-13 0-1'					<50.0	<4.00
308416 - AH-14 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
308422 - AH-15 0-1'					<50.0	<4.00
308426 - AH-16 0-1'					<50.0	<4.00 Qs
308430 - AH-17 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
308434 - AH-18 0-1'					<50.0	<4.00 Qs
308440 - AH-19 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00 Qs
308443 - AH-20 0-1'					<50.0	<4.00 Qs
308446 - AH-21 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308450 - AH-22 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308453 - AH-23 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308456 - AH-24 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
308465 - AH-25 0-1'					<50.0	<4.00

Sample: 308336 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		13000	mg/Kg	4

Sample: 308337 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		133	mg/Kg	4

Sample: 308338 - AH-1 2-2.5'

Report Date: September 17, 2012

Work Order: 12090405

Page Number: 5 of 21

Param	Flag	Result	Units	RL
Chloride		140	mg/Kg	4

Sample: 308339 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		231	mg/Kg	4

Sample: 308340 - AH-1 4-4.5'

Param	Flag	Result	Units	RL
Chloride		105	mg/Kg	4

Sample: 308341 - AH-1 5-5.5'

Param	Flag	Result	Units	RL
Chloride		140	mg/Kg	4

Sample: 308342 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		2440	mg/Kg	4

Sample: 308343 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		623	mg/Kg	4

Sample: 308344 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		3240	mg/Kg	4

Sample: 308345 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		3660	mg/Kg	4

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Sample: 308346 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		3820	mg/Kg	4

Sample: 308347 - AH-2 5-5.5'

Param	Flag	Result	Units	RL
Chloride		3070	mg/Kg	4

Sample: 308348 - AH-2 6.5-7'

Param	Flag	Result	Units	RL
Chloride		2720	mg/Kg	4

Sample: 308349 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		11000	mg/Kg	4

Sample: 308350 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		6950	mg/Kg	4

Sample: 308351 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		756	mg/Kg	4

Sample: 308352 - AH-3 3.-3.5'

Param	Flag	Result	Units	RL
Chloride		122	mg/Kg	4

Sample: 308353 - AH-3 4-4.5'

Param	Flag	Result	Units	RL
Chloride		562	mg/Kg	4

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Sample: 308354 - AH-3 5-5.5'

Param	Flag	Result	Units	RL
Chloride		176	mg/Kg	4

Sample: 308355 - AH-3 6-6.5'

Param	Flag	Result	Units	RL
Chloride		267	mg/Kg	4

Sample: 308356 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		7390	mg/Kg	4

Sample: 308357 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		3670	mg/Kg	4

Sample: 308358 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		260	mg/Kg	4

Sample: 308359 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		1120	mg/Kg	4

Sample: 308360 - AH-4 4-4.5'

Param	Flag	Result	Units	RL
Chloride		1060	mg/Kg	4

Sample: 308361 - AH-4 5-5.5'

Param	Flag	Result	Units	RL
Chloride		1110	mg/Kg	4

Sample: 308362 - AH-4 6-6.5'

Param	Flag	Result	Units	RL
Chloride		1120	mg/Kg	4

Sample: 308363 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		9530	mg/Kg	4

Sample: 308364 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		7570	mg/Kg	4

Sample: 308365 - AH-5 2-2.5'

Param	Flag	Result	Units	RL
Chloride		122	mg/Kg	4

Sample: 308366 - AH-5 3-3.5'

Param	Flag	Result	Units	RL
Chloride		161	mg/Kg	4

Sample: 308367 - AH-5 4-4.5'

Param	Flag	Result	Units	RL
Chloride		359	mg/Kg	4

Sample: 308368 - AH-5 4.5-5'

Param	Flag	Result	Units	RL
Chloride		382	mg/Kg	4

Sample: 308369 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		8580	mg/Kg	4

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Sample: 308370 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		10000	mg/Kg	4

Sample: 308371 - AH-6 2-2.5'

Param	Flag	Result	Units	RL
Chloride		260	mg/Kg	4

Sample: 308372 - AH-6 3-3.5'

Param	Flag	Result	Units	RL
Chloride		329	mg/Kg	4

Sample: 308373 - AH-6 4-4.5'

Param	Flag	Result	Units	RL
Chloride		245	mg/Kg	4

Sample: 308374 - AH-6 4.5-5'

Param	Flag	Result	Units	RL
Chloride		658	mg/Kg	4

Sample: 308375 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		8290	mg/Kg	4

Sample: 308376 - AH-7 1-1.5'

Param	Flag	Result	Units	RL
Chloride		12700	mg/Kg	4

Sample: 308377 - AH-7 2-2.5'

Param	Flag	Result	Units	RL
Chloride		4530	mg/Kg	4

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Sample: 308378 - AH-7 3-3.5'

Param	Flag	Result	Units	RL
Chloride		84.2	mg/Kg	4

Sample: 308379 - AH-7 4-4.5'

Param	Flag	Result	Units	RL
Chloride		199	mg/Kg	4

Sample: 308380 - AH-7 5-5.5'

Param	Flag	Result	Units	RL
Chloride		191	mg/Kg	4

Sample: 308381 - AH-8 0-1'

Param	Flag	Result	Units	RL
Chloride		5710	mg/Kg	4

Sample: 308382 - AH-8 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1560	mg/Kg	4

Sample: 308383 - AH-8 2-2.5'

Param	Flag	Result	Units	RL
Chloride		589	mg/Kg	4

Sample: 308384 - AH-8 3-3.5'

Param	Flag	Result	Units	RL
Chloride		959	mg/Kg	4

Sample: 308385 - AH-8 4-4.5'

Param	Flag	Result	Units	RL
Chloride		1110	mg/Kg	4

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Sample: 308386 - AH-9 0-1'

Param	Flag	Result	Units	RL
Chloride		9600	mg/Kg	4

Sample: 308387 - AH-9 1-1.5'

Param	Flag	Result	Units	RL
Chloride		5150	mg/Kg	4

Sample: 308388 - AH-9 2-2.5'

Param	Flag	Result	Units	RL
Chloride		468	mg/Kg	4

Sample: 308389 - AH-9 3-3.5'

Param	Flag	Result	Units	RL
Chloride		491	mg/Kg	4

Sample: 308390 - AH-9 4-4.5'

Param	Flag	Result	Units	RL
Chloride		337	mg/Kg	4

Sample: 308391 - AH-9 5-5.5'

Param	Flag	Result	Units	RL
Chloride		529	mg/Kg	4

Sample: 308392 - AH-10 0-1'

Param	Flag	Result	Units	RL
Chloride		8900	mg/Kg	4

Sample: 308393 - AH-10 1-1.5'

Param	Flag	Result	Units	RL
Chloride		7550	mg/Kg	4

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Sample: 308394 - AH-10 2-2.5'

Param	Flag	Result	Units	RL
Chloride		792	mg/Kg	4

Sample: 308395 - AH-10 3-3.5'

Param	Flag	Result	Units	RL
Chloride		533	mg/Kg	4

Sample: 308396 - AH-10 4-4.5'

Param	Flag	Result	Units	RL
Chloride		251	mg/Kg	4

Sample: 308397 - AH-10 5-5.5'

Param	Flag	Result	Units	RL
Chloride		219	mg/Kg	4

Sample: 308398 - AH-11 0-1'

Param	Flag	Result	Units	RL
Chloride		5960	mg/Kg	4

Sample: 308399 - AH-11 1-1.5'

Param	Flag	Result	Units	RL
Chloride		5220	mg/Kg	4

Sample: 308400 - AH-11 2-2.5'

Param	Flag	Result	Units	RL
Chloride		274	mg/Kg	4

Sample: 308401 - AH-11 3-3.5'

Param	Flag	Result	Units	RL
Chloride		243	mg/Kg	4

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Sample: 308402 - AH-11 4-4.5'

Param	Flag	Result	Units	RL
Chloride		62.7	mg/Kg	4

Sample: 308403 - AH-11 4.5-5'

Param	Flag	Result	Units	RL
Chloride		149	mg/Kg	4

Sample: 308404 - AH-12 0-1'

Param	Flag	Result	Units	RL
Chloride		8240	mg/Kg	4

Sample: 308405 - AH-12 1-1.5'

Param	Flag	Result	Units	RL
Chloride		540	mg/Kg	4

Sample: 308406 - AH-12 2-2.5'

Param	Flag	Result	Units	RL
Chloride		405	mg/Kg	4

Sample: 308407 - AH-12 3-3.5'

Param	Flag	Result	Units	RL
Chloride		866	mg/Kg	4

Sample: 308408 - AH-12 4-4.5'

Param	Flag	Result	Units	RL
Chloride		604	mg/Kg	4

Sample: 308409 - AH-12 5-5.5'

Param	Flag	Result	Units	RL
Chloride		453	mg/Kg	4

Sample: 308410 - AH-13 0-1'

Param	Flag	Result	Units	RL
Chloride		2720	mg/Kg	4

Sample: 308411 - AH-13 1-1.5'

Param	Flag	Result	Units	RL
Chloride		318	mg/Kg	4

Sample: 308412 - AH-13 2-2.5'

Param	Flag	Result	Units	RL
Chloride		921	mg/Kg	4

Sample: 308413 - AH-13 3-3.5'

Param	Flag	Result	Units	RL
Chloride		1370	mg/Kg	4

Sample: 308414 - AH-13 4-4.5'

Param	Flag	Result	Units	RL
Chloride		1020	mg/Kg	4

Sample: 308415 - AH-13 5-5.5'

Param	Flag	Result	Units	RL
Chloride		1470	mg/Kg	4

Sample: 308416 - AH-14 0-1'

Param	Flag	Result	Units	RL
Chloride		12700	mg/Kg	4

Sample: 308417 - AH-14 1-1.5'

Param	Flag	Result	Units	RL
Chloride		7730	mg/Kg	4

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Sample: 308418 - AH-14 2-2.5'

Param	Flag	Result	Units	RL
Chloride		186	mg/Kg	4

Sample: 308419 - AH-14 3-3.5'

Param	Flag	Result	Units	RL
Chloride		279	mg/Kg	4

Sample: 308420 - AH-14 4-4.5'

Param	Flag	Result	Units	RL
Chloride		24.4	mg/Kg	4

Sample: 308421 - AH-14 5-5.5'

Param	Flag	Result	Units	RL
Chloride		220	mg/Kg	4

Sample: 308422 - AH-15 0-1'

Param	Flag	Result	Units	RL
Chloride		5260	mg/Kg	4

Sample: 308423 - AH-15 1-1.5'

Param	Flag	Result	Units	RL
Chloride		371	mg/Kg	4

Sample: 308424 - AH-15 2-2.5'

Param	Flag	Result	Units	RL
Chloride		1040	mg/Kg	4

Sample: 308425 - AH-15 2.5-3'

Param	Flag	Result	Units	RL
Chloride		1900	mg/Kg	4

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Sample: 308426 - AH-16 0-1'

Param	Flag	Result	Units	RL
Chloride		11300	mg/Kg	4

Sample: 308427 - AH-16 1-1.5'

Param	Flag	Result	Units	RL
Chloride		5480	mg/Kg	4

Sample: 308428 - AH-16 2-2.5'

Param	Flag	Result	Units	RL
Chloride		686	mg/Kg	4

Sample: 308429 - AH-16 3-3.5'

Param	Flag	Result	Units	RL
Chloride		137	mg/Kg	4

Sample: 308430 - AH-17 0-1'

Param	Flag	Result	Units	RL
Chloride		9680	mg/Kg	4

Sample: 308431 - AH-17 1-1.5'

Param	Flag	Result	Units	RL
Chloride		6410	mg/Kg	4

Sample: 308432 - AH-17 2-2.5'

Param	Flag	Result	Units	RL
Chloride		240	mg/Kg	4

Sample: 308433 - AH-17 3-3.5'

Param	Flag	Result	Units	RL
Chloride		260	mg/Kg	4

Sample: 308434 - AH-18 0-1'

Param	Flag	Result	Units	RL
Chloride		7120	mg/Kg	4

Sample: 308435 - AH-18 1-1.5'

Param	Flag	Result	Units	RL
Chloride		615	mg/Kg	4

Sample: 308436 - AH-18 2-2.5'

Param	Flag	Result	Units	RL
Chloride		649	mg/Kg	4

Sample: 308437 - AH-18 3-3.5'

Param	Flag	Result	Units	RL
Chloride		484	mg/Kg	4

Sample: 308438 - AH-18 4-4.5'

Param	Flag	Result	Units	RL
Chloride		765	mg/Kg	4

Sample: 308439 - AH-18 5-5.5'

Param	Flag	Result	Units	RL
Chloride		1080	mg/Kg	4

Sample: 308440 - AH-19 0-1'

Param	Flag	Result	Units	RL
Chloride		8300	mg/Kg	4

Sample: 308441 - AH-19 1-1.5'

Param	Flag	Result	Units	RL
Chloride		5880	mg/Kg	4

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Sample: 308442 - AH-19 2-2.5'

Param	Flag	Result	Units	RL
Chloride		184	mg/Kg	4

Sample: 308443 - AH-20 0-1'

Param	Flag	Result	Units	RL
Chloride		3420	mg/Kg	4

Sample: 308444 - AH-20 1-1.5'

Param	Flag	Result	Units	RL
Chloride		59.4	mg/Kg	4

Sample: 308445 - AH-20 2-2.5'

Param	Flag	Result	Units	RL
Chloride		109	mg/Kg	4

Sample: 308446 - AH-21 0-1'

Param	Flag	Result	Units	RL
Chloride		5060	mg/Kg	4

Sample: 308447 - AH-21 1-1.5'

Param	Flag	Result	Units	RL
Chloride		7100	mg/Kg	4

Sample: 308448 - AH-21 2-2.5'

Param	Flag	Result	Units	RL
Chloride		1520	mg/Kg	4

Sample: 308449 - AH-21 3-3.5'

Param	Flag	Result	Units	RL
Chloride		158	mg/Kg	4

Sample: 308450 - AH-22 0-1'

Param	Flag	Result	Units	RL
Chloride		4320	mg/Kg	4

Sample: 308451 - AH-22 1-1.5'

Param	Flag	Result	Units	RL
Chloride		514	mg/Kg	4

Sample: 308452 - AH-22 2-2.5'

Param	Flag	Result	Units	RL
Chloride		178	mg/Kg	4

Sample: 308453 - AH-23 0-1'

Param	Flag	Result	Units	RL
Chloride		7670	mg/Kg	4

Sample: 308454 - AH-23 1-1.5'

Param	Flag	Result	Units	RL
Chloride		796	mg/Kg	4

Sample: 308455 - AH-23 2-2.5'

Param	Flag	Result	Units	RL
Chloride		252	mg/Kg	4

Sample: 308456 - AH-24 0-1'

Param	Flag	Result	Units	RL
Chloride		11100	mg/Kg	4

Sample: 308457 - AH-24 1-1.5'

Param	Flag	Result	Units	RL
Chloride		7150	mg/Kg	4

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Sample: 308458 - AH-24 2-2.5'

Param	Flag	Result	Units	RL
Chloride		184	mg/Kg	4

Sample: 308459 - AH-24 3-3.5'

Param	Flag	Result	Units	RL
Chloride		165	mg/Kg	4

Sample: 308460 - AH-24 4-4.5'

Param	Flag	Result	Units	RL
Chloride		150	mg/Kg	4

Sample: 308461 - AH-24 5-5.5'

Param	Flag	Result	Units	RL
Chloride		170	mg/Kg	4

Sample: 308462 - AH-24 6-6.5'

Param	Flag	Result	Units	RL
Chloride		243	mg/Kg	4

Sample: 308463 - AH-24 7-7.5'

Param	Flag	Result	Units	RL
Chloride		451	mg/Kg	4

Sample: 308464 - AH-24 8-8.5'

Param	Flag	Result	Units	RL
Chloride		698	mg/Kg	4

Sample: 308465 - AH-25 0-1'

Param	Flag	Result	Units	RL
Chloride		13000	mg/Kg	4

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Sample: 308466 - AH-25 1-1.5'

Param	Flag	Result	Units	RL
Chloride		732	mg/Kg	4

Sample: 308467 - AH-25 2-2.5'

Param	Flag	Result	Units	RL
Chloride		199	mg/Kg	4

Sample: 308468 - AH-2 6-6.5'

Param	Flag	Result	Units	RL
Chloride		2250	mg/Kg	4

12090405

308336-308468

due 9/11

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

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JF: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG				SITE MANAGER: Ike Towarez				ANALYSIS REQUEST (Circle or Specify Method No.)																						
PROJECT NO.: 114-6401478			PROJECT NAME: SRO 102 SWD			SAMPLE IDENTIFICATION: Eddy Co NM		NUMBER OF CONTAINERS		PRESERVATIVE METHOD																				
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX	COMP.	GRAB			1	FILTERED (Y/N)	HCl	HN03	ICE	NONE	BTEx 8021B	TPH 8015 MCD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Fd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8250/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chlorine	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
308336	8/23		S	X	AH-1	0-1'		1	X		X	X		X	X															
337						1-1.5'		1																						
338						2-2.5'																								
339						3-3.5'																								
340						4-4.5'																								
341						5-5.5'																								
342						AH-2	0-1'																							
343																														
344							1-1.5'																							
345							2-2.5'																							
							3-3.5'																							
RELINQUISHED BY: (Signature)				Date:	Time:	RECEIVED BY: (Signature)				Date:	Time:	SAMPLED BY: (Print & Initial)				Date:	Time:	SAMPLE SHIPPED BY: (Circle)				AIRBILL #:								
<i>Kane Titus</i>				08-31-12	1300	<i>Kane Titus</i>				08-31-12	1300	<i>JKR</i>				08-31-12		<input checked="" type="checkbox"/> FEDEX	<input type="checkbox"/> BUS	<input type="checkbox"/> UPS										
<i>Kane Titus</i>				08-31-12	1425	<i>E. Hernandez</i>				08-31-12	1425											OTHER: _____								
RELINQUISHED BY: (Signature)				Date:	Time:	RECEIVED BY: (Signature)				Date:	Time:	TETRA TECH CONTACT PERSON:				Results by:														
<i>Kane Titus</i>				08-31-12	1425	<i>E. Hernandez</i>				08-31-12	1425	<i>JKR</i>				08-31-12		<input checked="" type="checkbox"/> BTEx - <i>R. plus h</i>	<input type="checkbox"/> <i>C. Midland</i>	<input type="checkbox"/> <i>Ike Towarez</i>										
RECEIVING LABORATORY: <i>Ike</i>				RECEIVED BY: (Signature)				TIME:				BTEx added 9/1 - see attachment				RUSH Charges Authorized:														
ADDRESS: <i>Midland</i>																				Yes No										
CITY: <i>Midland</i> STATE: <i>TX</i> ZIP: <i>79705</i>				PHONE: <i>325-640-1478</i>				DATE: <i>08-31-12</i> TIME: <i>1425</i>																						
SAMPLE CONDITION WHEN RECEIVED: <i>3.7 intact</i>				REMARKS: <i>No deeper samples if TPH exceed 1,000 mg/kg.</i>																										

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

* Run BTEx on 12 highest TPH o-1' depth
 Run BTEx on 12 deepest samples if benzene exceed 10 mg/kg or total RPH is over 100 mg/kg.

13090405

Analysis Request of Chain of Custody Record



TETRA TECH

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Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

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ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:				SITE MANAGER:				NUMBER OF CONTAINERS	PRESERVATIVE METHOD			BTEx 8021B TRF 8015 MOD PAH 8270	(Ext. to C35)			
COG				Ike Tawarz					HCL	HNO3	ICE			NONE		
PROJECT NO.:			PROJECT NAME:													
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION										
346	8/28		S	X		AH-2 4.4.5'					1	X				
347						5-5.5'					1					
348						6.5-7'					1					
349						AH-3 0-1'					1		X			
350						1-1.5'					1					
351						2-2.5'					1					
352						3-3.5'					1					
353						4-4.5'					1					
354						5-5.5'					1					
355						6-6.5'					1					
RELINQUISHED BY: (Signature)						Date: _____	RECEIVED BY: (Signature)	Date: 08-31-12	SAMPLER BY: (Print & Initial)			Date: 8-28-12				
						Time: _____	Ike Tawarz	Time: 13:00	TMR RR			Time: _____				
RELINQUISHED BY: (Signature)						Date: 08-31-12	RECEIVED BY: (Signature)	Date: 08-31-12	SAMPLE SHIPPED BY: (Circle)			AIRBILL #: _____				
Kane Titch						Time: 14:25	Quintana Hernandez	Time: 14:25	FEDEX	BUS	OTHER: _____					
RELINQUISHED BY: (Signature)						Date: _____	RECEIVED BY: (Signature)	Date: _____	HAND DELIVERED			OTHER: _____				
RECEIVING LABORATORY: Ike Tawarz						RECEIVED BY: (Signature)	Date: _____	UPS	TETRA TECH CONTACT PERSON:			Results by:				
ADDRESS: Midland						PHONE: _____	DATE: _____	TIME: _____	Ike Tawarz							
CITY: Midland STATE: TX ZIP: _____						CONTACT: _____	RUSH Charges Authorized: Yes No									
SAMPLE CONDITION WHEN RECEIVED: 3.7 intact						REMARKS:										

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

12090405

Analysis Request of Chain of Custody Record


TETRA TECH

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

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ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COLG SITE MANAGER: Ike Tawarez

PROJECT NO.: 114-6401478 PROJECT NAME: SDO 102 SWD

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION					
						1	FILTERED (Y/N)	HCL	HNO3	ICE	NONE
356	8/28		S	X	AH-4	0-1'			X		
357						1-1.5'					
358						2-2.5'					
359						3-3.5'					
360						4-4.5'					
361						5-5.5'					
362						6-6.5'					
363	8/29				AH-5	0-1'			XX		
364						1-1.5'					
365						2-2.5					

NUMBER OF CONTAINERS	PRESERVATIVE METHOD				
	BTEX 8021B	TPH 8015 MGD	TX1005 (Ext. to C35)	PAH 8270	
1	X				
					RCA Metals Ag As Ba Cd Cr Pb Hg Se
					TCLP Metals Ag As Ba Cd Cr Pb Hg Se
					TCLP Volatiles
					TCLP Semi Volatiles
					RCI
					GC/MS Vol. 8240/8250/624
					GC/MS Semi. Vol. 8270/625
					PCBs 8080/608
					Pest. 806/608
					Chloride
					Gamma Spec.
					Alpha Beta (Air)
					PLM (Asbestos)
					Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Ike Tawarez

Date:

Time:

SAMPLED BY: (Print & Initial)

MK/RPDate: 8-28-12

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

G. Hernandez

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

AIRBILL #:

BUS

OTHER:

HAND DELIVEREDUPS

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Ike Tawarez

Date:

Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY: Tetra

RECEIVED BY: (Signature)

ADDRESS: MidlandSTATE: TXPHONE: DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.7 intact

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12090408

Analysis Request of Chain of Custody Record

**TETRA TECH**

1910 N. Big Spring St.
Midland, Texas 79705
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PAGE:

F: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG				SITE MANAGER: Ike Tavarez				NUMBER OF CONTAINERS	PRESERVATIVE METHOD		
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX COMP. GRAB	HCL	HNO3	ICE	NONE		BTEX 8021B	TPH 8015 MDP	
									TX1005 (Ext. to C35)	PAH 8270	
366	8/29		S X AH-5		3-3.5'	X		1		RCRA Metals Ag As Ba Cd Cr Pb Hg Se	
367					4.4.5'					TCLP Metals Ag As Ba Cd Vr Pd Hg Se	
368					4.5-5'					TCLP Volatiles	
369			AH-6		0-1'					TCLP Semi Volatiles	
370					1-1.5'					RCI	
371					2-2.5'					GC/MS Vol. 8240/8260/624	
372					3-3.5'					GC/MS Semi. Vol. 8270/625	
373					4-4.5'					PCBs 8080/608	
374	↓		↓	↓	4.5-5'	↓	↓			Pest. 808/608	
375										(Chloride) Gamma Spec.	

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Tracie Fitch

Date: 08-31-12

Time: 1300

SAMPLED BY: (Print & Initial)

TMK / RR

Date: 8/29/12

Time: _____

RELINQUISHED BY: (Signature)

Date: 08-31-12

Time: 1425

RECEIVED BY: (Signature)

C. Hernandez

Date: 8/31/12

Time: 14:25

SAMPLE SHIPPED BY: (Circle)

FEDEX

AIRBILL #: _____

BUS

HAND DELIVERED

UPS

OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

TETRA TECH CONTACT PERSON:

Ike Tavarez

Results by:

RUSH Charges

Authorized:

Yes No

RECEIVING LABORATORY: TETRA

RECEIVED BY: (Signature)

ADDRESS: _____

CITY: Midland

STATE: TX

ZIP: _____

PHONE: _____

DATE: _____

TIME: _____

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

12090405

Analysis Request of Chain of Custody Record

**TETRA TECH**

1910 N. Big Spring St.
Midland, Texas 79705
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PAGE: 5 OF: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG			SITE MANAGER: Ike Tawaray																											
PROJECT NO.: 114-6401478		PROJECT NAME: SRO 102 SWD																												
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX S	COMP. X	GRAB	SAMPLE IDENTIFICATION																								
						NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HN03	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	PCBs 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS		
376	8/29		S	X	AH-7	0-1'	1		X	X																				
376			S			1-1.5'	1																							
378			S			2-2.5'	1																							
378			S			3-3.5'	1																							
380			S			4-4.5'	1																							
380			S			5-5.5'	1																							
382			S			AH-8	0-1'	1																						
382			S				1-1.5'	1																						
383			S				2-2.5'	1																						
384			S				3-3.5'	1																						
RELINQUISHED BY: (Signature)						Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)						Date:	RECEIVED BY: (Signature)						RECEIVED BY: (Signature)								
RELINQUISHED BY: (Signature)						Date: 08-31-12	Time: 1425	RECEIVED BY: (Signature)	Date: 08-31-12	Time: 1300	RECEIVED BY: (Signature)						Date: 08-31-12	Time: 1300	RECEIVED BY: (Signature)						RECEIVED BY: (Signature)					
RELINQUISHED BY: (Signature)						Date: 08-31-12	Time: 1425	RECEIVED BY: (Signature)	Date: 08-31-12	Time: 1425	RECEIVED BY: (Signature)						Date: 08-31-12	Time: 1425	RECEIVED BY: (Signature)						RECEIVED BY: (Signature)					
RECEIVING LABORATORY: Tice						RECEIVED BY: (Signature)						RECEIVED BY: (Signature)						RECEIVED BY: (Signature)						RECEIVED BY: (Signature)						
ADDRESS: Midland						PHONE: TX						DATE: 8/31/12						TIME: 14:25						TETRA TECH CONTACT PERSON: Ike						
CITY: Midland STATE: TX						ZIP: 79705						CONTACT: Ike Tawaray						RESULTS BY: Ike						RUSH CHARGES AUTHORIZED: Yes No						
SAMPLE CONDITION WHEN RECEIVED: 3.1 intact						REMARKS:																								

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12090405

Analysis Request of Chain of Custody Record



TETRA TECH

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PAGE: 6 OF: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG			SITE MANAGER: Ike Tavarez							
PROJECT NO.: 114-6401478			PROJECT NAME:							
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB					
SAMPLE IDENTIFICATION										
388	8/29	1	X	AH-8	4-4.5'					
						HNO3	HCl	ICE	NONE	BTEX 8021B
										TPH 8015 MOD > TX1005 (Ext. to C35)
						PAH 8270				RCRA Metals Ag As Ba Cd Cr Pb Hg Se
										TGLP Metals Ag As Ba Cd Vr Pd Hg Se
						TCLP Volatiles				TCLP Semi Volatiles
										RCI
						PCBs 8080/608				GC/MS Vol. 8240/8260/624
										GC/MS Semi. Vol. 8270/625
						Pest. 808/608				PCBs 8080/608
Pest. 808/608										
389	1	1	X	AH-9	0-1'					
						HNO3	HCl	ICE	NONE	Chloride
										Gamma Spec.
						PAH 8270				Alpha Beta (Air)
										PLM (Asbestos)
						TCLP Volatiles				Major Anions/Cations, pH, TDS
						PCBs 8080/608				
						Pest. 808/608				
390	1	1	X	AH-10	1-1.5'					
						HNO3	HCl	ICE	NONE	
						PAH 8270				
						TCLP Volatiles				
						PCBs 8080/608				
						Pest. 808/608				
391	1	1	X	AH-10	2-2.5'					
						HNO3	HCl	ICE	NONE	
						PAH 8270				
						TCLP Volatiles				
						PCBs 8080/608				
						Pest. 808/608				
392	1	1	X	AH-10	4-4.5'					
						HNO3	HCl	ICE	NONE	
						PAH 8270				
						TCLP Volatiles				
						PCBs 8080/608				
						Pest. 808/608				
393	1	1	X	AH-10	5-5.5'					
						HNO3	HCl	ICE	NONE	
						PAH 8270				
						TCLP Volatiles				
						PCBs 8080/608				
						Pest. 808/608				
394	1	1	X	AH-10	1-1.5'					
						HNO3	HCl	ICE	NONE	
						PAH 8270				
						TCLP Volatiles				
						PCBs 8080/608				
						Pest. 808/608				
395	1	1	X	AH-10	2-2.5'					
						HNO3	HCl	ICE	NONE	
						PAH 8270				
						TCLP Volatiles				
						PCBs 8080/608				
						Pest. 808/608				
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)							
Date: 08-31-12 Time: 13:00			Date: 08-31-12 Time: 13:00							
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)							
Date: 08-31-12 Time: 14:25			Date: 08-31-12 Time: 14:25							
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)							
Date: _____ Time: _____			Date: _____ Time: _____							
RECEIVING LABORATORY: Tetra ADDRESS: Midland CITY: Midland STATE: TET ZIP: 79705 CONTACT: Ike Tavarez PHONE: (432) 682-3946			RECEIVED BY: (Signature)							
DATE: _____ TIME: _____			TIME: _____							
SAMPLE CONDITION WHEN RECEIVED: 3.7 intact			REMARKS:							

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Analysis Request of Chain of Custody Record



TETRA TECH

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PAGE: 7 OF: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: <i>COLG</i>			SITE MANAGER: <i>Ike Tawaray</i>			ANALYSIS REQUEST (Circle or Specify Method No.)																										
PROJECT NO.: <i>114-60401478</i>			PROJECT NAME: <i>SPD 102 SWD</i>																													
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX COMP. GRAB	SAMPLE IDENTIFICATION			NUMBER OF CONTAINERS FILTERED (Y/N)	HCL	HNO3	ICE	NONE	PRESERVATIVE METHOD			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 Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi Vol. 8270/625	PCBs 8080/608	Pest. 808/608	<i>Chloro</i>	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
				395	3/29	5						X	AH-10	3-3.5'																		
396					4-4.5'																											
397					5-5.5'																											
398					AH-11	0-1'																										
399						1-1.5'																										
400						2-2.5'																										
401						3-3.5'																										
402						4-4.5'																										
403						4.5-5'																										
404						5-5.5'																										
405					AH-12	0-1'																										
RELINQUISHED BY: (Signature)			Date:	Time:	RECEIVED BY: (Signature)			Date:	08-31-12	Time:	13:00	SAMPLER BY: (Print & Initial)			Date:	8-31-12	Time:		SAMPLE SHIPPED BY: (Circle)			AIRBILL #:										
<i>Jeanne Fitch</i>			<i>08-31-12</i>	<i>14:25</i>	<i>Karen Fitch</i>			<i>8/31/12</i>		<i>14:25</i>	<i>MIL WP</i>			<i>FEDEX</i>	<i>BUS</i>	<i>HAND DELIVERED</i>	<i>UPS</i>	<i>OTHER:</i>														
RELINQUISHED BY: (Signature)			Date:	Time:	RECEIVED BY: (Signature)			Date:	8/31/12	Time:	14:25	TETRA TECH CONTACT PERSON:			Results by:																	
<i>Jeanne Fitch</i>			<i>08-31-12</i>	<i>14:25</i>	<i>S. Hernandez</i>			<i>8/31/12</i>		<i>14:25</i>	<i>Ike</i>																					
RECEIVING LABORATORY: <i>Tetra</i>			RECEIVED BY: (Signature)			RUSH Charges Authorized:																										
ADDRESS:						Yes No																										
CITY: <i>Midland</i> STATE: <i>TX</i> ZIP: <i>79705</i>			PHONE: <i>432-682-3946</i>			DATE: <i>08-31-12</i> TIME: <i>13:00</i>																										
SAMPLE CONDITION WHEN RECEIVED:						REMARKS:																										

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Analysis Request of Chain of Custody Record


TETRA TECH

 1910 N. Big Spring St.
 Midland, Texas 79705
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PAGE: 8

OF: 14

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME: <u>COG</u>			SITE MANAGER: <u>Ike Tavares</u>																																																															
PROJECT NO.: <u>114-6401478</u>			PROJECT NAME: <u>500 102 SWD</u>																																																															
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX COMP GRAB	SAMPLE IDENTIFICATION <u>Eddy C NM</u>			NUMBER OF CONTAINERS			PRESERVATIVE METHOD			BTEX 8021B			TPH 8015 MOD			TX1005 (Ext. to C35)			PAH 8250			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		
										HCl	HNO3	ICE	NONE																																																					
405	8/29		S X	AH-12			1-1.5'		1		X				BTEX 8021B	TPH 8015 MOD	TX1005 (Ext. to C35)	PAH 8250																																																
406)						2-2.5'		1																																																									
407)						3-3.5'																																																											
408)						4-4.5'																																																											
409							5-5.5'																																																											
410							AH-13		0-1'																																																									
411									1-1.5'																																																									
412									2-2.5'																																																									
413									3-3.5'																																																									
414	↓		↓	↓					4-4.5'		↓																																																							
RELINQUISHED BY: (Signature)			Date: _____ Time: _____			RECEIVED BY: (Signature)			Date: 08-31-12 Time: 1300			SAMPLER BY: (Print & Initial)			Date: 08-30-12 Time: 1300			TETRA TECH CONTACT PERSON:			Results by:																																													
<u>Jeanne Fitch</u>						<u>Jeanne Fitch</u>						<u>Ike</u>																																																						
RELINQUISHED BY: (Signature)			Date: 08-31-12 Time: 1415			RECEIVED BY: (Signature)			Date: 08-31-12 Time: 14:25			SAMPLE SHIPPED BY: (Circle)			AIRBILL #:																																																			
<u>Jeanne Fitch</u>						<u>S Hernandez</u>						<u>Hand Delivered</u>			BUS			OTHER:																																																
RELINQUISHED BY: (Signature)			Date: _____ Time: _____			RECEIVED BY: (Signature)			Date: _____ Time: _____			TETRA TECH CONTACT PERSON:			Results by:																																																			
RECEIVING LABORATORY: <u>Tetra</u> ADDRESS: <u>Midland</u>			STATE: <u>TX</u>			RECEIVED BY: (Signature)			DATE: _____ TIME: _____			Ike			RUSH Charges Authorized:																																																			
CONTACT: <u>Midland</u>			PHONE: _____												Yes			No																																																
SAMPLE CONDITION WHEN RECEIVED:						REMARKS:																																																												

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Analysis Request of Chain of Custody Record

**TETRA TECH**

1910 N. Big Spring St.
Midland, Texas 79705
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PAGE: 9 OF: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG				SITE MANAGER: Ike Tavarer																											
PROJECT NO.: 114-6401478				PROJECT NAME: SRO 102 SWD																											
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX COMP: GRAB	SAMPLE IDENTIFICATION Eddy Co NM								NUMBER OF CONTAINERS		PRESERVATIVE METHOD																	
416	8/29		5	X	AH-13	5-5.5'																									
416					AH-14	0-1'																									
418						1-1.5'																									
418						2-2.5'																									
418						3-3.5'																									
420						4-4.5'																									
421						5-5.5'																									
422					AH-15	0-1'																									
423						1-1.5'																									
424						2-2.5'																									
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)				Date: 08-31-12				SAMPLER BY: (Print & Initial)				Date: 8-24-12															
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)				Time: 1300				MIL RR				Time:															
Jeanne Fitch				John Hernandez				Date: 08-31-12				SAMPLE SHIPPED BY: (Circle)				AIRBILL #:															
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)				Time: 14:25				FEDEX BUS				OTHER:															
Jeanne Fitch				John Hernandez				Date: 08-31-12				HAND DELIVERED UPS				TETRA TECH CONTACT PERSON: Ike Results by:															
RECEIVING LABORATORY: TETRA				RECEIVED BY: (Signature)				TIME:				RUSH Charges Authorized:																			
ADDRESS: Midland				PHONE: TX				DATE: 				Yes No 																			
CITY: Midland STATE: TX ZIP: 				CONTACT: 																											
SAMPLE CONDITION WHEN RECEIVED: 3.7 intact				REMARKS:																											

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

12090405

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
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CLIENT NAME: COG			SITE MANAGER: Ike Tavares			ANALYSIS REQUEST (Circle or Specify Method No.)					
PROJECT NO.: 114-6401478			PROJECT NAME: SRO 102 SWD								
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX COMP. GRAB	SAMPLE IDENTIFICATION			PRESERVATIVE METHOD				
				NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE		
425	8/29		5 X	AH-15	2.5-3'	1	X		BTEX 8021B		
426				AH-16	0-1'	1		X	TPH 8015 MOD TX1005 (Ext. to C35) PAH 8270		
427					1-1.5'	1			RCRA Metals Ag As Ba Cd Cr Pb Hg Se		
428					2-2.5'	1			TCLP Metals Ag As Ba Cd Cr Pb Hg Se		
429					3-3.5'	1			TCLP Volatiles		
430				AH-17	0-1'	1		X	TCLP Semi Volatiles		
431					1-1.5'	1			RCI		
432					2-2.5'	1			GC/MS Vol. 8240/B260/524		
433					3-3.5'	1			GC/MS Semi. Vol. 8270/625		
434				AH-18	0-1'	1	V	X	PCBs 8080/608		
RELINQUISHED BY: (Signature)			Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	SAMPLED BY: (Print & Initial)	Date:		
<i>Keane Tech</i>			Time:	<i>Keane Tech</i>	Time:	<i>St Hernandez</i>	Time:	<i>Mil RR</i>	Time:		
RELINQUISHED BY: (Signature)			Date: 08-31-12	RECEIVED BY: (Signature)	Date: 08-31-12	RECEIVED BY: (Signature)	Date: 08-31-12	SAMPLE SHIPPED BY: (Circle)	Date:		
<i>Keane Tech</i>			Time: 1425		Time: 1425		Time: 1425	FEDEX	8-29-12		
RELINQUISHED BY: (Signature)			Date:	RECEIVED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	BUS	Time:		
<i>Keane Tech</i>			Time:					HAND DELIVERED	OTHER:		
RECEIVING LABORATORY: <i>Intra</i>			ADDRESS:	RECEIVED BY: (Signature)			TETRA TECH CONTACT PERSON:			Results by:	
CITY: <i>Midland</i> STATE: <i>TX</i> ZIP: <i>79705</i>			PHONE:	DATE: _____ TIME: _____			<i>Ike</i>			RUSH Charges Authorized: Yes No	
SAMPLE CONDITION WHEN RECEIVED: <i>3.7 intact</i>			REMARKS:								

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Analysis Request of Chain of Custody Record

**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705
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PAGE: 11

OF: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: <i>COL</i>	SITE MANAGER: <i>Ike Tawney</i>
----------------------------	------------------------------------

PROJECT NO.: <i>114-6401478</i>	PROJECT NAME: <i>SRO 102 SWD</i>
------------------------------------	-------------------------------------

LAB I.D. NUMBER	DATE 2012	TIME	MATRIX S	COMP X	GRAB	SAMPLE IDENTIFICATION		
						NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD
						HCL	HNO3	ICE
								NONE
435	8/29		S	X		AH-18	1-1.5'	X
436							2-2.5'	
438							3-3.5'	
438							4-4.5'	
439							5-5.5'	
440	8/30					AH-19	0-1'	XX
441							1-1.5'	
442							2-2.5'	
443						AH-20	0-1'	X
444							1-1.5'	V

RELINQUISHED BY: (Signature) <i>Keane Fitch</i>	Date: <u>08-31-12</u> Time: <u>1300</u>	RECEIVED BY: (Signature) <i>Keane Fitch</i>	Date: <u>08-31-12</u> Time: <u>1300</u>	SAMPLED BY: (Print & Initial) <i>mk LR</i>	Date: <u>8-30-12</u> Time: <u></u>	
RELINQUISHED BY: (Signature) <i>Keane Fitch</i>	Date: <u>08-31-12</u> Time: <u>1425</u>	RECEIVED BY: (Signature) <i>CH Hernandez</i>	Date: <u>08-31-12</u> Time: <u>14:25</u>	SAMPLE SHIPPED BY: (Circle) <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> UPS	AIRBILL #: <u></u>	
RELINQUISHED BY: (Signature)	Date: <u></u> Time: <u></u>	RECEIVED BY: (Signature)	Date: <u></u> Time: <u></u>	<input checked="" type="checkbox"/> HAND DELIVERED	OTHER: <u></u>	
RECEIVING LABORATORY: <u>Tetra Tech</u>	RECEIVED BY: (Signature)	TETRA TECH CONTACT PERSON: <i>Ike</i>			Results by:	
ADDRESS: <u>1910 N. Big Spring St.</u>	DATE: <u></u> TIME: <u></u>				RUSH Charges Authorized: Yes <input type="checkbox"/> No <input type="checkbox"/>	
CITY: <u>Midland</u> STATE: <u>TX</u> ZIP: <u></u>	PHONE: <u></u>					
CONTACT: <u></u>	SAMPLE CONDITION WHEN RECEIVED: <u>3.7 intact</u>	REMARKS: <u></u>				

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

12090405

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: 12 OF: 14

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG				SITE MANAGER: Ike Tavares				NUMBER OF CONTAINERS	PRESERVATIVE METHOD		
PROJECT NO.: 114-6401478		PROJECT NAME: SD 102 SWD		FILTERED (Y/N)	HCL	HN03	ICE		NONE		
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX COMP: GRAB	SAMPLE IDENTIFICATION Eddy Co Wm			BTEX 8021B	TPH 8015 MOD	TX1005 (Ext. to C35)	PAR 8270	RCCA Metals Ag As Ba Cd Cr Pb Hg Se
445	8/30	5	X AH-20	2-2.5'			X	X	X	X	TCLP Metals Ag As Ba Cd Vr Pd Hg Se
446		1	1	AH-21							TCLP Volatiles
448				1-1.5'							TCLP Semi Volatiles
449				2-2.5'							RCI
450				3-3.5'							GC/MS Vol. 8240/8260/624
451				AH-22							GC/MS Semi. Vol. 8270/625
452				0-1'							PCBs 8080/608
453				1-1.5'							Pest. 8080/608
454				2-2.5'							Chloride
455				AH-23							Gamma Spec.
				0-1'							Alpha Beta (Air)
				1-1.5'							PLM (Asbestos)
				1-1.5'							Major Anions/Cations, pH, TDS
RELINQUISHED BY: (Signature)				Date:	RECEIVED BY: (Signature)			Date: 08-31-12	SAMPLED BY: (Print & Initial)	Date: 8-30-12	
				Time:	Jeanne Fitch			Time: 1300	MR / RR	Time:	
RELINQUISHED BY: (Signature)				Date: 08-31-12	RECEIVED BY: (Signature)			Date: 8/31/12	SAMPLE SHIPPED BY: (Circle)	AIRBILL #:	
Jeanne Fitch				Time: 1425	A Hernandez			Time: 14:25	FEDEX BUS		
RELINQUISHED BY: (Signature)				Date:	RECEIVED BY: (Signature)			Date:	HAND DELIVERED UPS	OTHER:	
				Time:				Time:			
RECEIVING LABORATORY: Trace				RECEIVED BY: (Signature)							
ADDRESS: Midland				RECEIVED BY: (Signature)							
CITY: Midland STATE: TX ZIP: 79705				RECEIVED BY: (Signature)							
CONTACT: Ike Tavares PHONE: 432-682-3946				RECEIVED BY: (Signature)							
SAMPLE CONDITION WHEN RECEIVED: 3.7 intact				REMARKS:							
Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.											

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 Tenner

PROJECT NO.:

111-6401478

PROJECT NAME:

SRD 102 SWD

LAB I.D.
NUMBER

DATE
2012

TIME

MATRIX

COMP.

GRAB

Eddy Co NM
SAMPLE IDENTIFICATION

465

8/30

X

AH-25

0-1'

466

1

1-1.5'

467

1

2-2.5'

468

1

3-3.5'

469

1

AH-22

6-6.5'

NUMBER OF CONTAINERS	PRESERVATIVE METHOD				
	FILTERED (Y/N)	HCL	HNO3	ICE	NONE
1	X			X	

ANALYSIS REQUEST (Circle or Specify Method No.)		PAGE: 14 OF: 41
BTX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	
PAH 8270	RCHa Metals Ag As Ba Cd Cr Pb Hg Se	
TCIP Volatiles	TCIP Metals Ag As Ba Cd Cr Vr Pd Hg Se	
TCLP Semi Volatiles	TCLP Volatiles	
RCI	PCBs 8080/608	
GC/MS Vol. 8240/8250/624	Pest. 808/608	
GC/MS Semi. Vol. 8270/625	Chloride Spec.	
PCBs 8080/608	Gamma Spec.	
Alpha Beta (Air)	PLM (Asbestos)	
Major Anions/Cations, pH, TDS		

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Ike Fitch

Date: 08-31-12

Time: 1300

SAMPLED BY: (Print & Initial)

TTK PR

Date: 8-30-12

Time:

RELINQUISHED BY: (Signature)

Date: 08-31-12

Time: 1425

RECEIVED BY: (Signature)

S. Hernandez

Date: 8/15/12

Time: 14:25

SAMPLE SHIPPED BY: (Circle)

FEDEX

AIRBILL #:

BUS

OTHER:

HAND DELIVERED

UPS

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Ike

Date:

Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY: TECO

RECEIVED BY: (Signature)

ADDRESS:

CITY: Midland STATE: TX ZIP:

CONTACT: PHONE:

DATE:

TIME:

RUSH Charges

Authorized:

Yes No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.7 intact

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

Summary Report

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

Report Date: November 5, 2012

Work Order: 12102923



Project Location: Eddy Co., NM
 Project Name: COG/SRO 102 SWD
 Project Number: 114-6401478

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
312942	Trench-1 5' (AH-2)	soil	2012-10-23	00:00	2012-10-29
312943	Trench-1 7' (AH-2)	soil	2012-10-23	00:00	2012-10-29
312944	Trench-1 9' (AH-2)	soil	2012-10-23	00:00	2012-10-29
312945	Trench-2 5' (AH-13)	soil	2012-10-23	00:00	2012-10-29
312946	Trench-2 7' (AH-13)	soil	2012-10-23	00:00	2012-10-29
312947	Trench-2 9' (AH-13)	soil	2012-10-23	00:00	2012-10-29
312948	Trench-3 3' (AH-15)	soil	2012-10-23	00:00	2012-10-29
312949	Trench-3 5' (AH-15)	soil	2012-10-23	00:00	2012-10-29
312950	Trench-3 7' (AH-15)	soil	2012-10-23	00:00	2012-10-29
312951	Trench-3 9' (AH-15)	soil	2012-10-23	00:00	2012-10-29
312952	Trench-4 Surface South East	soil	2012-10-24	00:00	2012-10-29
312953	Trench-4 2' South East	soil	2012-10-24	00:00	2012-10-29
312954	Trench-4 4' South East	soil	2012-10-24	00:00	2012-10-29
312955	Trench-4 6' South East	soil	2012-10-24	00:00	2012-10-29
312956	Trench-4 8' South East	soil	2012-10-24	00:00	2012-10-29
312957	Trench-4 10' South East	soil	2012-10-24	00:00	2012-10-29
312958	Trench-5 Surface East	soil	2012-10-24	00:00	2012-10-29
312959	Trench-5 2' East	soil	2012-10-24	00:00	2012-10-29
312960	Trench-5 4' East	soil	2012-10-24	00:00	2012-10-29
312961	Trench-5 6' East	soil	2012-10-24	00:00	2012-10-29
312962	Trench-5 7' East	soil	2012-10-24	00:00	2012-10-29
312963	Trench-6 Surface South West	soil	2012-10-25	00:00	2012-10-29
312964	Trench-6 2' South West	soil	2012-10-25	00:00	2012-10-29
312965	Trench-6 4' South West	soil	2012-10-25	00:00	2012-10-29
312966	Trench-6 6' South West	soil	2012-10-25	00:00	2012-10-29
312967	Trench-6 8' South West	soil	2012-10-25	00:00	2012-10-29
312968	Trench-6 10' South West	soil	2012-10-25	00:00	2012-10-29
312969	Trench-7 Surface West	soil	2012-10-25	00:00	2012-10-29
312970	Trench-7 2' West	soil	2012-10-25	00:00	2012-10-29
312971	Trench-7 4' West	soil	2012-10-25	00:00	2012-10-29

Report Date: November 5, 2012

Work Order: 12102923

Page Number: 2 of 6

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
312972	Trench-7 6' West	soil	2012-10-25	00:00	2012-10-29
312973	Trench-7 8' West	soil	2012-10-25	00:00	2012-10-29
312974	Trench-7 10' West	soil	2012-10-25	00:00	2012-10-29

Sample: 312942 - Trench-1 5' (AH-2)

Param	Flag	Result	Units	RL
Chloride		2140	mg/Kg	4

Sample: 312943 - Trench-1 7' (AH-2)

Param	Flag	Result	Units	RL
Chloride		1930	mg/Kg	4

Sample: 312944 - Trench-1 9' (AH-2)

Param	Flag	Result	Units	RL
Chloride		531	mg/Kg	4

Sample: 312945 - Trench-2 5' (AH-13)

Param	Flag	Result	Units	RL
Chloride		724	mg/Kg	4

Sample: 312946 - Trench-2 7' (AH-13)

Param	Flag	Result	Units	RL
Chloride		971	mg/Kg	4

Sample: 312947 - Trench-2 9' (AH-13)

Param	Flag	Result	Units	RL
Chloride		869	mg/Kg	4

Sample: 312948 - Trench-3 3' (AH-15)

Report Date: November 5, 2012

Work Order: 12102923

Page Number: 3 of 6

Param	Flag	Result	Units	RL
Chloride		579	mg/Kg	4

Sample: 312949 - Trench-3 5' (AH-15)

Param	Flag	Result	Units	RL
Chloride		326	mg/Kg	4

Sample: 312950 - Trench-3 7' (AH-15)

Param	Flag	Result	Units	RL
Chloride		1120	mg/Kg	4

Sample: 312951 - Trench-3 9' (AH-15)

Param	Flag	Result	Units	RL
Chloride		443	mg/Kg	4

Sample: 312952 - Trench-4 Surface South East

Param	Flag	Result	Units	RL
Chloride		4860	mg/Kg	4

Sample: 312953 - Trench-4 2' South East

Param	Flag	Result	Units	RL
Chloride		3420	mg/Kg	4

Sample: 312954 - Trench-4 4' South East

Param	Flag	Result	Units	RL
Chloride		3020	mg/Kg	4

Sample: 312955 - Trench-4 6' South East

Param	Flag	Result	Units	RL
Chloride		3050	mg/Kg	4

Report Date: November 5, 2012

Work Order: 12102923

Page Number: 4 of 6

Sample: 312956 - Trench-4 8' South East

Param	Flag	Result	Units	RL
Chloride		3220	mg/Kg	4

Sample: 312957 - Trench-4 10' South East

Param	Flag	Result	Units	RL
Chloride		2660	mg/Kg	4

Sample: 312958 - Trench-5 Surface East

Param	Flag	Result	Units	RL
Chloride		30200	mg/Kg	4

Sample: 312959 - Trench-5 2' East

Param	Flag	Result	Units	RL
Chloride		3420	mg/Kg	4

Sample: 312960 - Trench-5 4' East

Param	Flag	Result	Units	RL
Chloride		1330	mg/Kg	4

Sample: 312961 - Trench-5 6' East

Param	Flag	Result	Units	RL
Chloride		3360	mg/Kg	4

Sample: 312962 - Trench-5 7' East

Param	Flag	Result	Units	RL
Chloride		3700	mg/Kg	4

Sample: 312963 - Trench-6 Surface South West

Param	Flag	Result	Units	RL
Chloride		3080	mg/Kg	4

Report Date: November 5, 2012

Work Order: 12102923

Page Number: 5 of 6

Sample: 312964 - Trench-6 2' South West

Param	Flag	Result	Units	RL
Chloride		6640	mg/Kg	4

Sample: 312965 - Trench-6 4' South West

Param	Flag	Result	Units	RL
Chloride		4440	mg/Kg	4

Sample: 312966 - Trench-6 6' South West

Param	Flag	Result	Units	RL
Chloride		991	mg/Kg	4

Sample: 312967 - Trench-6 8' South West

Param	Flag	Result	Units	RL
Chloride		2630	mg/Kg	4

Sample: 312968 - Trench-6 10' South West

Param	Flag	Result	Units	RL
Chloride		1540	mg/Kg	4

Sample: 312969 - Trench-7 Surface West

Param	Flag	Result	Units	RL
Chloride		33800	mg/Kg	4

Sample: 312970 - Trench-7 2' West

Param	Flag	Result	Units	RL
Chloride		20000	mg/Kg	4

Sample: 312971 - Trench-7 4' West

Param	Flag	Result	Units	RL
Chloride		4330	mg/Kg	4

Report Date: November 5, 2012

Work Order: 12102923

Page Number: 6 of 6

Sample: 312972 - Trench-7 6' West

Param	Flag	Result	Units	RL
Chloride		3630	mg/Kg	4

Sample: 312973 - Trench-7 8' West

Param	Flag	Result	Units	RL
Chloride		1650	mg/Kg	4

Sample: 312974 - Trench-7 10' West

Param	Flag	Result	Units	RL
Chloride		1520	mg/Kg	4

10/29/2012

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: 1

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG			SITE MANAGER: The Tavares															
PROJECT NO.: 114-640147B			PROJECT NAME: COG / SRO 102 SWID Com City C; NW			SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS		PRESERVATIVE METHOD									
LAB I.D. NUMBER	DATE 2012	TIME 10-29	MATRIX S	COMP. GRAB				HCL	HNO3	ICE	NONE							
362942			x			Trench-1 5' (AH-2)			x									
943						Trench-1 7' (AH-2)												
944						Trench-1 9' (AH-2)												
945						Trench-2 5' (AH-13)												
946						Trench-2 7' (AH-13)												
947						Trench-2 9' (AH-13)												
948						Trench-3 3' (AH-15)												
949						Trench-3 5' (AH-15)												
950						Trench-3 7' (AH-15)												
951						Trench-3 9' (AH-15)												
RELINQUISHED BY: (Signature) <i>[Signature]</i>			Date: 10-29-12	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 10/29/12	SAMPLED BY: (Print & Initial) <i>Cabret Grubbs Jr</i>	Date: 10-29-12											
			Time: 1800		Time: 0900		Time: 1800											
RELINQUISHED BY: (Signature) <i>[Signature]</i>			Date: 10/29/12	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 10/29/12	SAMPLE SHIPPED BY: (Circle) FEDEX <input checked="" type="checkbox"/> BUS <input checked="" type="checkbox"/> HAND DELIVERED <input type="checkbox"/> UPS	AIRBILL #: _____											
			Time: 0913		Time: 0915		OTHER: _____											
RELINQUISHED BY: (Signature) <i>[Signature]</i>			Date: _____	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: _____	TETRA TECH CONTACT PERSON: <i>F. Lee</i>	Results by: <i>J. Tavares</i>											
			Time: _____		Time: _____													
RECEIVING LABORATORY: Tech			RECEIVED BY: (Signature)															
ADDRESS: _____																		
CITY: Midland STATE: TX ZIP: _____			DATE: _____ TIME: _____															
CONTACT: Manolo PHONE: _____																		
SAMPLE CONDITION WHEN RECEIVED: 1.38			REMARKS: _____															

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Midland acq

12/10/2012

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: 122

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG			SITE MANAGER: The Tavares																					
PROJECT NO.: 114-6401478			PROJECT NAME: COG/SR0 102 SWD Com Eddy Co, NM																					
LAB I.D. NUMBER	DATE 2012	TIME	MATRIX S	COMP. GRAB	SAMPLE IDENTIFICATION						NUMBER OF CONTAINERS	PRESERVATIVE METHOD												
					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	RCL	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Qflord	Gamma Spec.
952	10-24		S	X	Trench-4 Surface	South East	1		X						X									
953					Trench-4	2'																		
954					Trench-4	4'																		
955					Trench-4	6'																		
956					Trench-4	8'																		
957					Trench-4	10'																		
958					Trench-5 Surface	East																		
959					Trench-5	1'																		
960					Trench-5	4'																		
961	✓	✓	✓	✓	Trench-5	6'	East	✓	✓															
RELINQUISHED BY: (Signature) <i>T. Tavares</i>						Date: 10-26-12	RECEIVED BY: (Signature) <i>B. Tavares</i>	Date: 10/26/12	SAMPLER BY: (Print & Initial) <i>Vickie Tavares Jr</i>						Date: 10-26-12									
RELINQUISHED BY: (Signature) <i>T. Tavares</i>						Time: 1600	RECEIVED BY: (Signature) <i>B. Tavares</i>	Time: 1645	Time: 1645						Time: 1600									
RELINQUISHED BY: (Signature) <i>T. Tavares</i>						Date: 10/26/12	RECEIVED BY: (Signature) <i>B. Tavares</i>	Date: 10/26/12	SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS						AIRBILL #:									
RECEIVING LABORATORY: <i>T. Tavares</i>						RECEIVED BY: (Signature) <i>B. Tavares</i>	Date: 10/26/12	OTHER:						RESULTS BY:										
ADDRESS: <i>Midland, Texas</i>						PHONE: _____	DATE: _____	TIME: _____						RESULTS BY: <i>I. Lee Tavares</i>										
CITY: <i>Midland</i> STATE: <i>TX</i> ZIP: _____												RUSH Charges Authorized: Yes No												
CONTACT: <i>Midland, Texas</i>																								
SAMPLE CONDITION WHEN RECEIVED: 1.30						REMARKS:																		

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12/10/2003

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: 3

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: <i>COG</i>				SITE MANAGER: <i>Ike Taverz</i>				ANALYSIS REQUEST (Circle or Specify Method No.)																	
PROJECT NO.: <i>114-6401478</i>				PROJECT NAME: <i>COG / SRO 102 SWD Loco Eddy Co, Inc.</i>																					
LAB I.D. NUMBER	DATE	TIME	MATRIX	SAMPLE IDENTIFICATION								NUMBER OF CONTAINERS	PRESERVATIVE METHOD												
				COMP	GRAB	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	PCBs 8080/608	Pest. 808/608	Chloride	Gamma Spec.
963	10-24	S	X	Trench-5	7'	East					X										X				
963	10-25			Trench-6	Surface	South West																			
963				Trench-6	2'	South West																			
963				Trench-6	4'	South West																			
963				Trench-6	6'	South West																			
968				Trench-6	8'	South west																			
968				Trench-6	10'	Southwest																			
970				Trench-7	Surface	West																			
970				Trench-7	2'	West																			
970	✓	✓	✓	Trench-7	4'	West					✓	✓									✓				
RELINQUISHED BY: (Signature) <i>Ike Taverz</i>				Date: 10-26-12 Time: 1800	RECEIVED BY: (Signature) <i>Ike Taverz</i>				Date: 10-26-12 Time: 1800	SAMPLED BY: (Print & Initial) <i>Eduardo Tr</i>				Date: 10-26-12 Time: 1800											
RELINQUISHED BY: (Signature) <i>Ike Taverz</i>				Date: 10-26-12 Time: 1800	RECEIVED BY: (Signature) <i>Ike Taverz</i>				Date: 10-26-12 Time: 1800	SAMPLE SHIPPED BY: (Circle) FEDEX <input checked="" type="checkbox"/> BUS <input checked="" type="checkbox"/> HAND DELIVERED <input checked="" type="checkbox"/> UPS				AIRBILL #: _____											
RELINQUISHED BY: (Signature) <i>Ike Taverz</i>				Date: _____ Time: _____	RECEIVED BY: (Signature) <i>Ike Taverz</i>				Date: _____ Time: _____	OTHER: _____				TETRA TECH CONTACT PERSON: <i>Ike Taverz</i>	Results by: <i>Ike Taverz</i>										
RECEIVING LABORATORY: <i>Tavares</i>				RECEIVED BY: (Signature) <i>Ike Taverz</i>								RUSH Charges Authorized: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
ADDRESS: <i>Midland</i> , STATE: <i>TX</i> ZIP: _____				DATE: _____ TIME: _____																					
CONTACT: <i>Ike Taverz</i> PHONE: _____																									
SAMPLE CONDITION WHEN RECEIVED: <i>1.39</i>				REMARKS: <i></i>																					

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

Summary Report

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

Report Date: January 24, 2013

Work Order: 13012202



Project Location: Eddy Co., NM
 Project Name: COG/SRO 102 SWD
 Project Number: 114-6401478

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
318888	SB-1 @ T-4 6-7'	soil	2013-01-18	00:00	2013-01-21
318889	SB-1 @ T-4 9-10'	soil	2013-01-18	00:00	2013-01-21
318890	SB-1 @ T-4 14-15'	soil	2013-01-18	00:00	2013-01-21
318891	SB-1 @ T-4 19-20'	soil	2013-01-18	00:00	2013-01-21
318892	SB-1 @ T-4 24-25'	soil	2013-01-18	00:00	2013-01-21
318893	SB-1 @ T-4 29-30'	soil	2013-01-18	00:00	2013-01-21
318897	SB-2 @ T-5 6-7'	soil	2013-01-18	00:00	2013-01-21
318898	SB-2 @ T-5 9-10'	soil	2013-01-18	00:00	2013-01-21
318899	SB-2 @ T-5 14-15'	soil	2013-01-18	00:00	2013-01-21
318900	SB-2 @ T-5 19-20'	soil	2013-01-18	00:00	2013-01-21
318901	SB-2 @ T-5 24-25'	soil	2013-01-18	00:00	2013-01-21
318902	SB-2 @ T-5 29-30'	soil	2013-01-18	00:00	2013-01-21
318906	SB-3 @ T-7 6-7'	soil	2013-01-17	00:00	2013-01-21
318907	SB-3 @ T-7 9-10'	soil	2013-01-17	00:00	2013-01-21
318908	SB-3 @ T-7 14-15'	soil	2013-01-17	00:00	2013-01-21
318909	SB-3 @ T-7 19-20'	soil	2013-01-17	00:00	2013-01-21
318910	SB-3 @ T-7 24-25'	soil	2013-01-17	00:00	2013-01-21
318911	SB-3 @ T-7 29-30'	soil	2013-01-17	00:00	2013-01-21
318912	SB-3 @ T-7 39-40'	soil	2013-01-17	00:00	2013-01-21
318913	SB-3 @ T-7 49-50'	soil	2013-01-17	00:00	2013-01-21

Sample: 318888 - SB-1 @ T-4 6-7'

Param	Flag	Result	Units	RL
Chloride		2250	mg/Kg	4

Report Date: January 24, 2013

Work Order: 13012202

Page Number: 2 of 4

Sample: 318889 - SB-1 @ T-4 9-10'

Param	Flag	Result	Units	RL
Chloride		3090	mg/Kg	4

Sample: 318890 - SB-1 @ T-4 14-15'

Param	Flag	Result	Units	RL
Chloride		1750	mg/Kg	4

Sample: 318891 - SB-1 @ T-4 19-20'

Param	Flag	Result	Units	RL
Chloride		1440	mg/Kg	4

Sample: 318892 - SB-1 @ T-4 24-25'

Param	Flag	Result	Units	RL
Chloride		297	mg/Kg	4

Sample: 318893 - SB-1 @ T-4 29-30'

Param	Flag	Result	Units	RL
Chloride		267	mg/Kg	4

Sample: 318897 - SB-2 @ T-5 6-7'

Param	Flag	Result	Units	RL
Chloride		3670	mg/Kg	4

Sample: 318898 - SB-2 @ T-5 9-10'

Param	Flag	Result	Units	RL
Chloride		2440	mg/Kg	4

Sample: 318899 - SB-2 @ T-5 14-15'

Param	Flag	Result	Units	RL
Chloride		1010	mg/Kg	4

Report Date: January 24, 2013

Work Order: 13012202

Page Number: 3 of 4

Sample: 318900 - SB-2 @ T-5 19-20'

Param	Flag	Result	Units	RL
Chloride		924	mg/Kg	4

Sample: 318901 - SB-2 @ T-5 24-25'

Param	Flag	Result	Units	RL
Chloride		619	mg/Kg	4

Sample: 318902 - SB-2 @ T-5 29-30'

Param	Flag	Result	Units	RL
Chloride		267	mg/Kg	4

Sample: 318906 - SB-3 @ T-7 6-7'

Param	Flag	Result	Units	RL
Chloride		2300	mg/Kg	4

Sample: 318907 - SB-3 @ T-7 9-10'

Param	Flag	Result	Units	RL
Chloride		1310	mg/Kg	4

Sample: 318908 - SB-3 @ T-7 14-15'

Param	Flag	Result	Units	RL
Chloride		877	mg/Kg	4

Sample: 318909 - SB-3 @ T-7 19-20'

Param	Flag	Result	Units	RL
Chloride		1880	mg/Kg	4

Sample: 318910 - SB-3 @ T-7 24-25'

Param	Flag	Result	Units	RL
Chloride		663	mg/Kg	4

Report Date: January 24, 2013

Work Order: 13012202

Page Number: 4 of 4

Sample: 318911 - SB-3 @ T-7 29-30'

Param	Flag	Result	Units	RL
Chloride		913	mg/Kg	4

Sample: 318912 - SB-3 @ T-7 39-40'

Param	Flag	Result	Units	RL
Chloride		757	mg/Kg	4

Sample: 318913 - SB-3 @ T-7 49-50'

Param	Flag	Result	Units	RL
Chloride		113	mg/Kg	4

13012202

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: / OF: 4

ANALYSIS REQUEST
(Circle or Specify Method No.)

				SAMPLE IDENTIFICATION				NUMBER OF CONTAINERS	PRESERVATIVE METHOD																
LAB I.D. NUMBER	DATE 2013	TIME	MATRIX COMP. GRAB	PROJECT NAME: 380 State Unit Com 102 SWD Eddy Co NM	HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RGRA 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	PCBs 8080/608	Pest. 808/608	Shoroids	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
818885	1/18	5	X	SB-1 @ T-4	0-1'	1																			
886		1	1		2-3'	1																			
887					4-5'	1																			
888					6-7'	1																			
889					9-10'	1																			
890					14-15'	1																			
891					19-20'	1																			
892					24-25'	1																			
893	✓		✓	✓	29-30'	1																			

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Jeanne Fitch

Date: 01-21-13

Time: 1600

SAMPLED BY: (Print & Initial)

TF

Date: 1-18-13

Time: _____

RELINQUISHED BY: (Signature)

Date: 01-21-13

Time: 1640

RECEIVED BY: (Signature)

JFM

Date: 01-21-13

Time: 1640

SAMPLE SHIPPED BY: (Circle)

FEDEX

AIRBILL #: _____

BUS

OTHER: _____

HAND DELIVERED

UPS

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

TETRA TECH CONTACT PERSON:

Ike

Results by: _____

RECEIVING LABORATORY: Trace

RECEIVED BY: (Signature)

ADDRESS: Midland

STATE: TX

ZIP: _____

CONTACT: PHONE: _____

DATE: _____

TIME: _____

SAMPLE CONDITION WHEN RECEIVED: 58°

REMARKS: Midland all

RUSH Charges

Authorized: _____

Yes No

13012202

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: 2 OF: 4													
ANALYSIS REQUEST (Circle or Specify Method No.)													
CLIENT NAME: <i>COG</i>			SITE MANAGER: <i>Ike Tavares</i>										
PROJECT NO.: <i>114-6401478</i>			PROJECT NAME: <i>SRO State Unit Com 102 SWD</i>										
LAB I.D. NUMBER	DATE <i>2013</i>	TIME	MATRIX COMP. GRAB	SAMPLE IDENTIFICATION				PRESERVATIVE METHOD					
				NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE				
894	4/13		S X SB-2 @ T-5	0-1'	1								
895	1			2-3'									
896	1			4-5'									
897	1			6-7'									
898	1			9-10'									
899	1			14-15'									
900	1			19-20'									
901	1			24-25'									
902	1			29-30'	V								
RELINQUISHED BY: (Signature) <i>Jeanne Fitch</i>				Date: <i>04-21-13</i> Time: <i>1600</i>	RECEIVED BY: (Signature) <i>Jeanne Fitch</i>				Date: <i>04-21-13</i> Time: <i>1600</i>	SAMPLED BY: (Print & Initial) <i>TE</i>		Date: <i>4-18-13</i> Time:	
RELINQUISHED BY: (Signature) <i>Jeanne Fitch</i>				Date: <i>04-21-13</i> Time: <i>1640</i>	RECEIVED BY: (Signature) <i>Karen</i>				Date: <i>04-21-13</i> Time: <i>1640</i>	SAMPLE SHIPPED BY: (Circle) <input checked="" type="checkbox"/> FEDEX <input type="checkbox"/> BUS <input type="checkbox"/> UPS		AIRBILL #: _____	
RELINQUISHED BY: (Signature) <i>Jeanne Fitch</i>				Date: _____ Time: _____	RECEIVED BY: (Signature) <i>Karen</i>				Date: _____ Time: _____	TETRA TECH CONTACT PERSON: <i>Ike</i>		OTHER: _____	
RECEIVING LABORATORY: <i>Taco</i>				RECEIVED BY: (Signature)								Results by: <input type="checkbox"/> Yes <input type="checkbox"/> No	
ADDRESS: <i>Midland</i>	STATE: <i>TX</i>	ZIP: _____	PHONE: _____	DATE: _____	TIME: _____							RUSH Charges Authorized: <input type="checkbox"/> Yes <input type="checkbox"/> No	
SAMPLE CONDITION WHEN RECEIVED: <i>5.80</i>				REMARKS:									

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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: KELLY ANDERSON								
PROJECT NO.: 1141648 1478		PROJECT NAME: SCS State Com 102 SW									
LAB I.D. NUMBER	DATE	TIME	MATRIX	SAMPLE IDENTIFICATION							
				COMP:	GRAB:	HNO ₃	ICE	NONE			
903	1/21/13	8	S	SB-307-7	0-1	1	-	-			
904		8	S	1	2-3	1	-	-			
905		8	S	1	4-5'	1	-	-			
906		8	S	1	6-7	1	-	-			
907		8	S	1	8-10	1	-	-			
908		8	S	1	14-15	1	-	-			
909		8	S	1	19-20	1	-	-			
910		8	S	1	24-25	1	-	-			
911	V	8	S	1	29-30	1	-	-			
912		8	S	1	39-40	1	-	-			
RELINQUISHED BY: (Signature)			Date: 01-21-13	RECEIVED BY: (Signature)			Date: 01-21-13	SAMPLED BY: (Print & Initial)			Date: 01-21-13
			Time: 16:00				Time: 16:00				Time: 16:00
RELINQUISHED BY: (Signature)			Date: 01-21-13	RECEIVED BY: (Signature)			Date: 01-21-13	SAMPLE SHIPPED BY: (Circle)			AIRBILL #: _____
Jenene Fisher			Time: 16:00	KELLY ANDERSON			Time: 16:00	FEDEX			BUS
RELINQUISHED BY: (Signature)			Date:	RECEIVED BY: (Signature)			Date:	HAND DELIVERED			UPS
			Time:				Time:				OTHER: _____
RECEIVING LABORATORY: TETRA TECH			RECEIVED BY: (Signature)			TETRA TECH CONTACT PERSON: KELLY ANDERSON			Results by: _____		
ADDRESS:			PHONE:			DATE:			TIME:		
CITY: STATE: ZIP:			CONTACT: PHONE:			DATE:			TIME:		
SAMPLE CONDITION WHEN RECEIVED: 5.80			REMARKS:								

PAGE: 5 OF: 4	
ANALYSIS REQUEST (Circle or Specify Method No.)	
<input checked="" type="checkbox"/> BTEX 8021B <input checked="" type="checkbox"/> TPH 8015 MOD. TX1005 (Ext. to C35) <input checked="" type="checkbox"/> PAH 8270 <input checked="" type="checkbox"/> RCRA Metals Ag As Ba Cd Cr Pb Hg Se <input checked="" type="checkbox"/> TCLP Metals Ag As Ba Cd Vr Pd Hg Se <input checked="" type="checkbox"/> TCLP Volatiles <input checked="" type="checkbox"/> TCLP Semi Volatiles <input checked="" type="checkbox"/> RCI <input checked="" type="checkbox"/> GC/MS Vol. 8240/5260/624 <input checked="" type="checkbox"/> GC/MS Semil. Vol. 8270/625 <input checked="" type="checkbox"/> PCB's 8080/608 <input checked="" type="checkbox"/> Pest 808/608 <input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> Gamma Spec. <input checked="" type="checkbox"/> Alpha Beta (Air) <input checked="" type="checkbox"/> PLM (Asbestos) <input checked="" type="checkbox"/> Major Anions/Cations, pH, TDS	
RUSH Charges Authorized: Yes No	

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1301 2202

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: 4 OF: 4

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: C06			SITE MANAGER: KF Lander		
PROJECT NO.: 114-6401478		PROJECT NAME: Sew State Cm 102 SWD			
LAB I.D. NUMBER	DATE 1/17/13	TIME 17:40	MATRIX S	COMP. GRAB	SAMPLE IDENTIFICATION Ed dy cu. mm.
NUMBER OF CONTAINERS					
FILTERED (Y/N)					
HCl HNO3 ICE NONE					
PRESERVATIVE METHOD					
BTEX 8021B TPH 8015 MOD. TX1005 (Ext. to C35) PAH 8270 RCFA 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. 8240/8280/624 GC/MS Semi. Vol. 8270/625 PCP's 8080/608 Post. 808/608 Chloride Gamma Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Cations, pH, TDS					
3/18/13 1-17-13 58-3 w T-7 49-50 X Hold					
9/14 4 59-60					
RELINQUISHED BY: (Signature) Date: 01-21-13 Time: 1600 RECEIVED BY: (Signature) Date: 01-21-13 Time: 1600 SAMPLED BY: (Print & Initial) Date: _____ Time: _____					
RELINQUISHED BY: (Signature) Date: 01-21-13 Time: 1640 RECEIVED BY: (Signature) Date: 1/21/13 Time: 1640 SAMPLE SHIPPED BY: (Circle) AIRBILL #: _____					
RELINQUISHED BY: (Signature) Date: _____ Time: _____ RECEIVED BY: (Signature) Date: _____ Time: _____ FEDEX BUS OTHER: _____					
RECEIVING LABORATORY: _____ RECEIVED BY: (Signature) TETRA TECH CONTACT PERSON: Results by: _____					
ADDRESS: _____ STATE: _____ ZIP: _____ DATE: _____ TIME: _____ KF Lander					
CITY: _____ CONTACT: _____ PHONE: _____					
SAMPLE CONDITION WHEN RECEIVED: S.80		REMARKS:			

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