

SITE INFORMATION

Report Type: Work Plan

General Site Information:

Site:	SENM SWD System (Northwest Central) - west		
Company:	COG Operating LLC		
Section, Township and Range	Unit N - Sec. 17 - T-17S - R-30E		
Lease Number:	NMNM-86025		
County:	Eddy Conty		
GPS:	32.83047° N		103.99600° W
Surface Owner:	Federal		
Mineral Owner:			
Directions:	From Loco Hills at the intersection of Hwy 82 and CR-217 (Hagerman Cutoff), travel north on CR-217 0.6 mi, turn left 0.4 mi, turn right 300' to location.		

Release Data: Spill #1 Spill #2

Date Released:	5/12/2010	288-536	12/15/2011	288-573
Type Release:	Produced water		Oil	
Source of Contamination:	6" Poly line weld failed		Oil Tank	
Fluid Released:	300 bbls		23 bbls	
Fluids Recovered:	200 bbls		20 bbls	

Official Communication:

Name:	Pat Ellis		ike Tavaréz
Company:	COG Operating, LLC		Tetra Tech
Address:	550 W. Texas Ave. Ste. 1300		1910 N. Big Spring
P.O. Box			
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		432-682-4559
Fax:	(432) 684-7137		
Email:	pellis@conchoresources.com		ike.tavaréz@tetrattech.com

Ranking Criteria

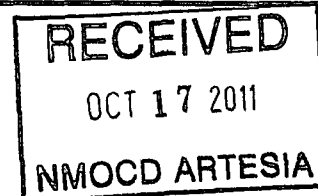
Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	

WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0

Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0

Total Ranking Score:	0	
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Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000





TETRA TECH

October 6, 2011

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
1301 West Grand Avenue
Artesia, New Mexico 88210

**Re: Assessment and Work Plan for the COG Operating LLC., SENM
SWD System (Northwest Central), Unit N, Section 17, Township
17 South, Range 30 East, Eddy County, New Mexico.**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess two spills from the SENM SWD System (Northwest Central) located in Unit N, Section 17, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.83047°, W 103.99600°. The site location is shown on Figures 1 and 2.

Background

Spill #1

According to the State of New Mexico C-141 Initial Report, a leak was discovered on May 12, 2010, when approximately three hundred (300) barrels of produced water released from a poly line weld on a 6" transmission line. To alleviate the problem, COG personnel repaired the poly line. Two hundred (200) barrels of standing fluids were recovered. The spill initiated on the north of the facility, flowed south approximately 325' and migrated approximately 150' off the facility pad. The initial C-141 form is enclosed in Appendix A.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com



Spill #2

On December 15, 2010, an oil tank overflowed caused by a plugged equalizer line, releasing approximately 23 barrels of oil. COG recovered 20 barrels using a vacuum truck. The spill flowed south of the facility pad measuring approximately 3' x 100' and migrated on top of the spill #1 footprint.

Groundwater

No water wells were listed within Section 17. According to the NMOCD groundwater map, the average depth to groundwater in this area appears to be 250' to 275' below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

Spill #1

On June 23, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of seven (7) auger holes (AH-1 through AH-7) were installed using a stainless steel hand auger to assess the impacted soils. Auger holes were not installed east of the tanks, due to the dense surface caliche in the area. In addition, the area of AH-4 appears to be near a closed reserve pit area. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The spill area and auger hole locations are shown on Figure 3.



Referring to Table 1, all of the submitted samples were below the RRAL for TPH and BTEX. Elevated chloride concentrations were detected in the majority of the auger holes. Auger holes (AH-2 and AH-4) were vertically defined at 7'-8' and 2'-3', respectively. The remaining auger holes required additional delineation.

On August 17, 2010, Tetra Tech supervised the installation of eight (8) soil borings (SB-1 through SB-8). In the area north of the facility, additional soil borings were not installed due to the buried electrical lines and active underground lines in the area. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 2. The soil boring locations are shown on Figure 3.

Referring to Table 1, all of the soil borings were vertically defined and show a shallow chloride impact to the subsurface soils ranging from 1.0' to 7.0' below surface. Soil boring (SB-3 and SB-6) showed a shallow impact to the soil at 1.0' and 2.0' below surface. SB-2, SB-4, SB-5, SB-7 and SB-8 were vertically defined at approximately 3.0' to 5.0' below surface. The area of SB-1 did show the deepest impact of 5.0' to 7.0' below surface.

Spill #2

On December 15, 2010, a second spill occurred at the site when the tank overflowed east of the tank battery and flowed south encompassing part of the spill #1 footprint. On February 25, 2011, Tetra Tech supervised the installation of seven (7) soil borings (SB-1 through SB-7). Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 2. The spill area and auger hole locations are shown on Figure 3.

Referring to Table 2, all of the submitted samples were below the RRAL for TPH and BTEX. The soil boring results showed a shallow chloride impact to the subsurface soils and were all defined at depths ranging from 3.0' to 7.0' below surface.



Work Plan

COG proposes to removal of impacted material as highlighted (green) in Table 1 and shown on Figure 4. In order to remove the elevated chloride concentrations, the excavations will range from 1.0' to 7.0' below surface. All of the excavated soil will be transported to proper disposal. Once excavated to the appropriate depths, the excavations will be backfilled with clean soil.

Based on location of the spill area, deeper excavation of the spill may not be achieve due to proximity of oil and gas equipment, structures or above or underground lines and electrical, which may cause cave ins and safety concerns for onsite equipment and personnel. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the depths are not reached in the deeper impacted areas, a 40 mil liner will be installed at depth of 4.0' below surface to cap the impacted area.

If the shallow excavation depths are not achieved, the remaining impact will be deferred until abandonment. The limited residual chloride impact in the subsurface soils would not appear to be an environmental concern, with groundwater depth of approximately 250' to 275' below surface.

If you have any questions or comments concerning the assessment or the proposed work plan, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH



Ike Tavaréz
Project Manager

cc: Pat Ellis – COG
cc: Terry Gregston – BLM

Figures

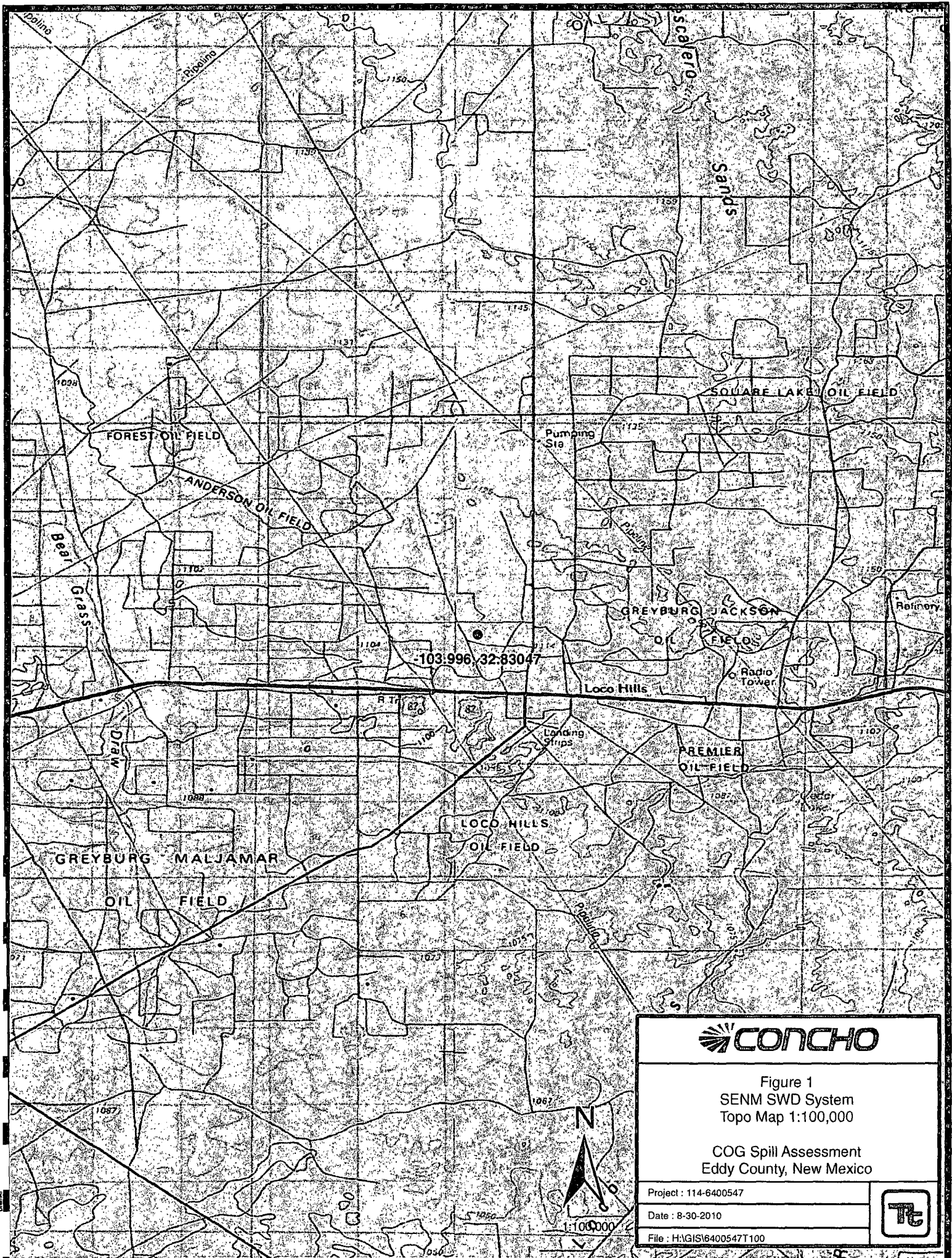


Figure 1
SENM SWD System
Topo Map 1:100,000

COG Spill Assessment
Eddy County, New Mexico

Project : 114-6400547

Date : 8-30-2010

File : H:\GIS\6400547\100



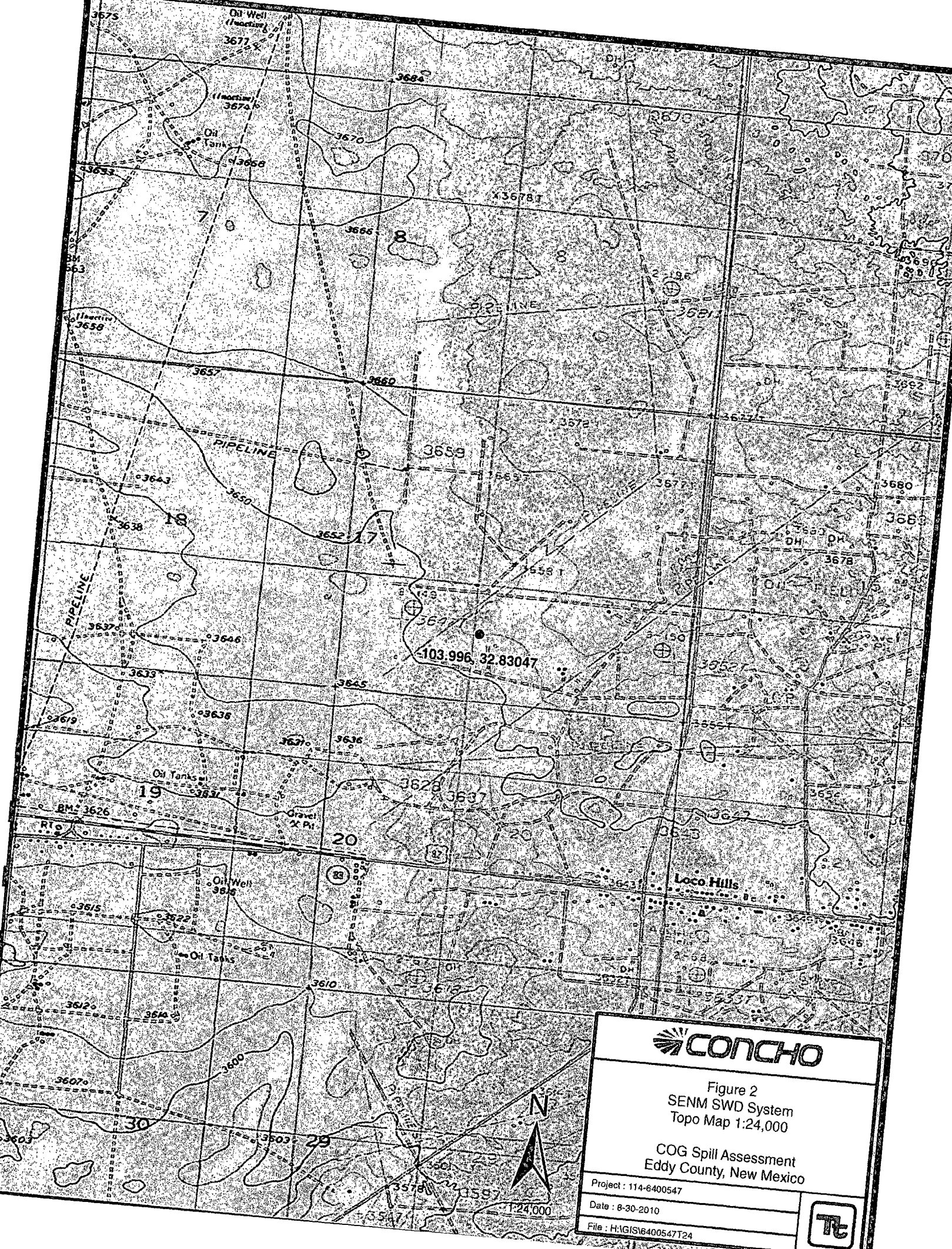


Figure 2
SENM SWD System
Topo Map 1:24,000

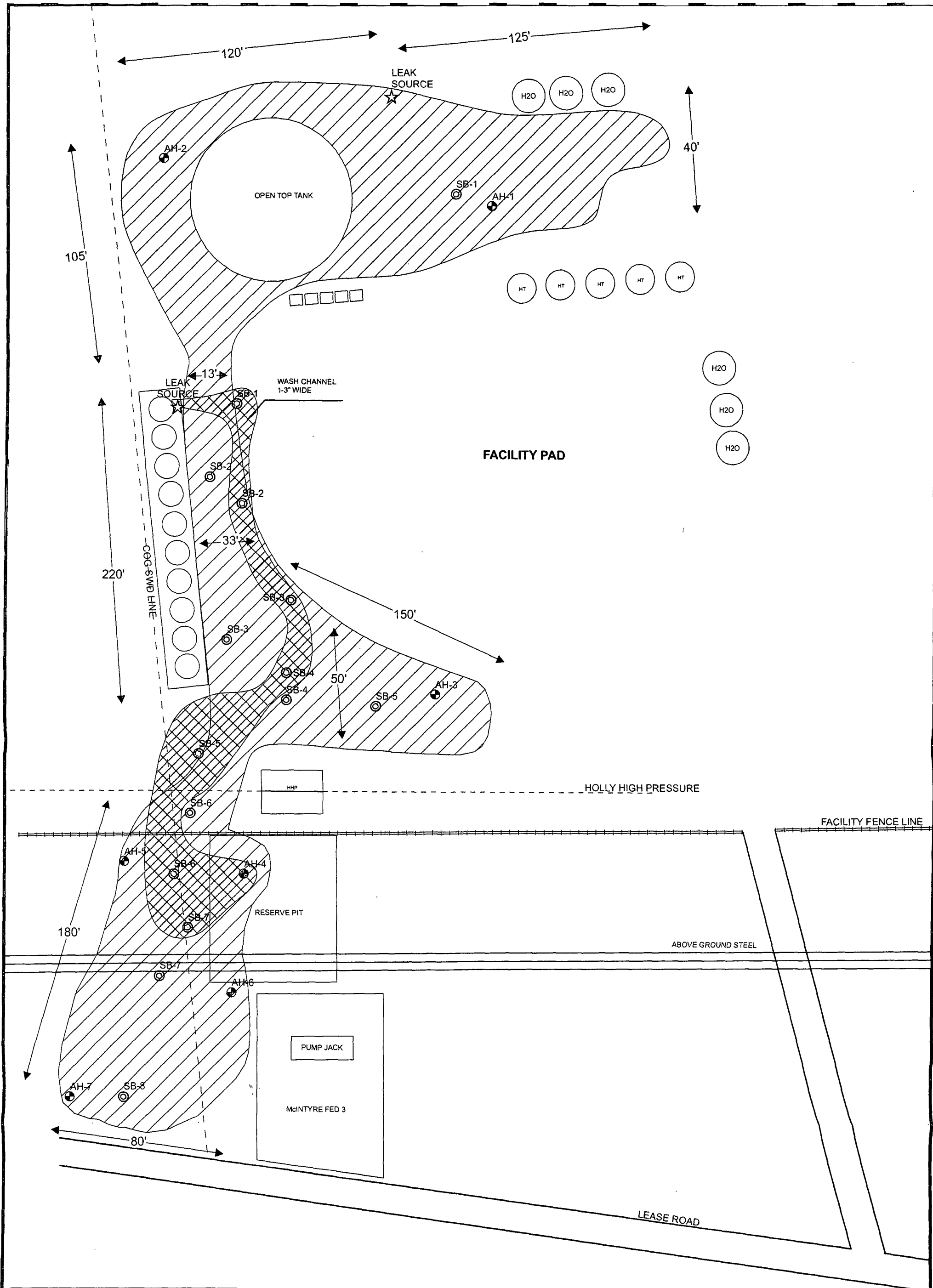
COG Spill Assessment
Eddy County, New Mexico

Project : 114-6400547

Date : 8-30-2010

File : H:\GIS\6400547T24





Explanation

- ☆ Spill Source
- Auger Hole Sample
- ⊙ Spill #1 Soil Borehole
- ⊙ Spill #2 Soil Borehole
- ▨ Spill #1
- ▨ Spill #2



Figure 3
SENM SWD System
Site Map

COG Spill Assessment
Eddy County, New Mexico

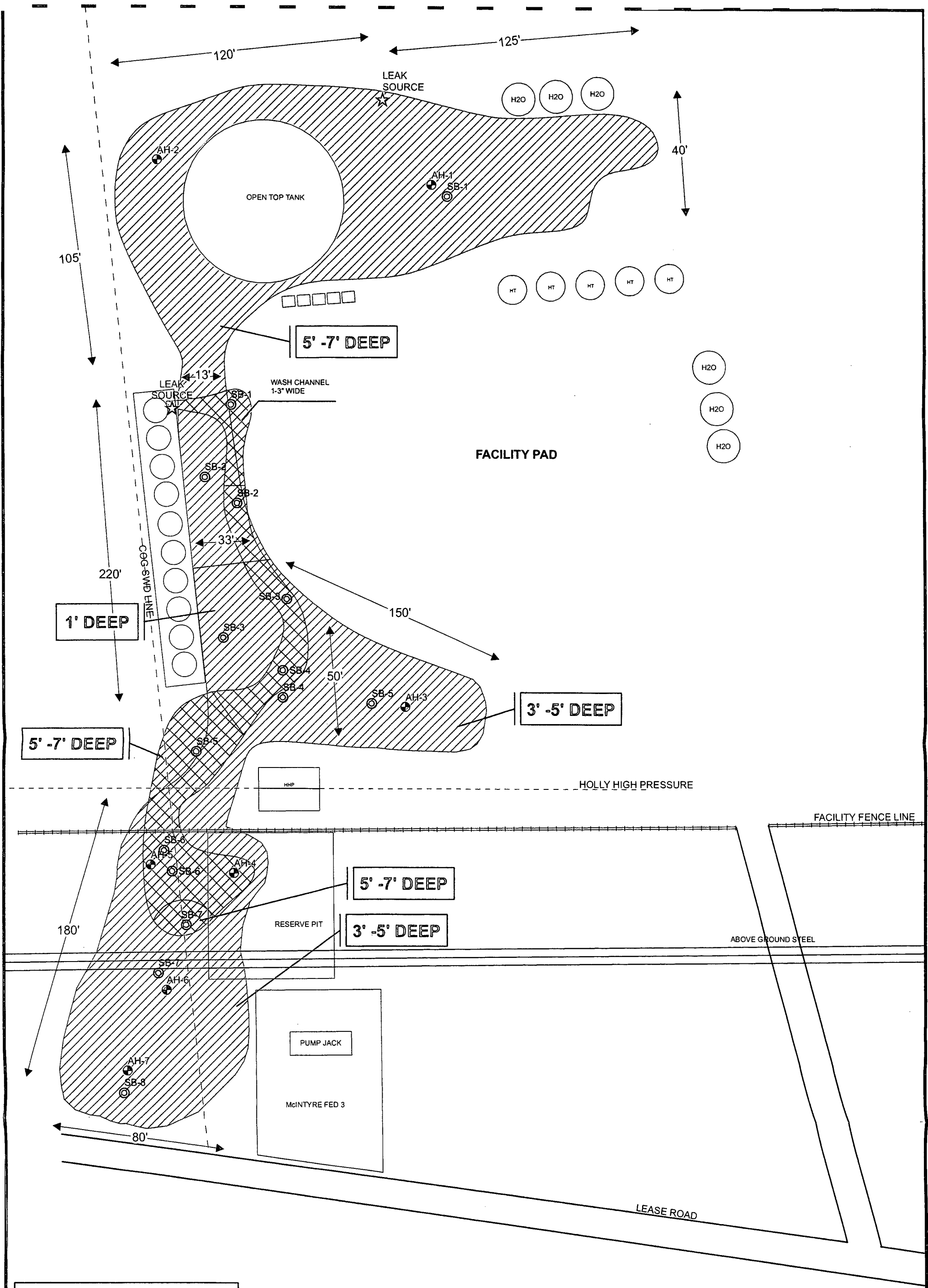
Project : 114-6400547

Date : 04-05-2011

File : H:\GIS\6400547



NOT TO SCALE



Explanation

☆	Spill Source
⊕	Auger Hole Sample
⊗	Spill #1 Soil Borehole
⊙	Spill #2 Soil Borehole
▨	Proposed Excavation Depths

N

NOT TO SCALE

Figure 4

SENM SWD System

Proposed Excavation Depths

Eddy County, New Mexico

Project : 114-6400547

Date : 04-05-2011

File : H:\GIS\6400547

Tables

Table 1
COG Operating LLC.
SENM SWD System
Spill #1
Eddy COUNTY, NEW MEXICO

[illegible]

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COG Operating LLC.
SENM SWD System
Spill #1
Eddy COUNTY, NEW MEXICO

[illegible]

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COG Operating LLC.
SENM SWD System
Spill #1
Eddy COUNTY, NEW MEXICO

[illegible]

Table 1
COG Operating LLC.
SENM SWD System
Spill #1
Eddy COUNTY, NEW MEXICO

[illegible]

Table 1
COG Operating LLC.
SENM SWD System
Spill #1
Eddy COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	BTEX Total	Chloride (mg/kg)
				In-Situ	Removed	DRO	GRO	Total						
AH-7	6/23/10	0-1'		X		<50.0	<2.00	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.02	2800
		1-1.5'		X		-	-	-	-	-	-	-	-	4880
		2-2.5'		X		-	-	-	-	-	-	-	-	6240
SB-8	8/18/10	1'		X		<50.0	<2.00	<50.0	-	-	-	-		863
	"	3'		X		-	-	-	-	-	-	-		1,430
	"	5'		X		-	-	-	-	-	-	-		1,900
	"	7'		X		-	-	-	-	-	-	-		1,260
	"	10'		X		-	-	-	-	-	-	-		456
	"	15'		X		-	-	-	-	-	-	-		739
	"	20'		X		-	-	-	-	-	-	-		481
	"	25'		X		-	-	-	-	-	-	-		496
	"	30'		X		-	-	-	-	-	-	-		337
	"	40'		X		-	-	-	-	-	-	-		<200

BEB Below Excavation Bottom

(--) Not Analyzed

 Excavated material

Table 2
COG Operating LLC.
SENM SWD System
Spill #2
Eddy COUNTY, NEW MEXICO

[illegible]

Table 2
COG Operating LLC.
SENM SWD System
Spill #2
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)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	Total					
SB-5	3/1/11	0-1'	X		3,530	1,730	5,260	2.86	82.8	64.8	86.0	5,300
	"	3'	X		2960	2850	5810	3.60	75.1	69.9	89.6	5,180
	"	5'	X		252	287	539	<0.100	0.602	3.71	6.61	3,680
	"	7'	X		-	-	-	-	-	-	-	1,300
	"	10'	X		-	-	-	-	-	-	-	<200
	"	15'	X		-	-	-	-	-	-	-	<200
	"	20'	X		-	-	-	-	-	-	-	235
SB-6	3/1/11	0-1'	X		3,870	1,530	5,400	<0.200	3.16	17.8	34.7	<200
	"	3'	X		<50.0	<2.00	<50.0	<0.0200	0.159	<0.0200	<0.0200	2,010
	"	5'	X		-	-	-	-	-	-	-	1,000
	"	7'	X		-	-	-	-	-	-	-	418
	"	10'	X		-	-	-	-	-	-	-	354
	"	15'	X		-	-	-	-	-	-	-	251
	"	20'	X		-	-	-	-	-	-	-	<200
	"	25'	X		-	-	-	-	-	-	-	221
	"	30'	X		-	-	-	-	-	-	-	320
SB-7	3/1/11	0-1'	X		10,800	3,640	14,440	5.25	86.5	87.6	120	1,080
	"	3'	X		1560	1240	2800	1.37	46.9	39.5	63.7	4,180
	"	5'	X		<50.0	<2.00	<50.0	<0.0200	<0.0200	0.15	<0.0200	2,500
	"	7'	X		-	-	-	-	-	-	-	419
	"	10'	X		-	-	-	-	-	-	-	792
	"	15'	X		-	-	-	-	-	-	-	324
	"	20'	X		-	-	-	-	-	-	-	<200
	"	25'	X		-	-	-	-	-	-	-	279
	"	30'	X		-	-	-	-	-	-	-	<200

(--) Not Analyzed

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

0547
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	SENM SWD System (Northwest Central)	Facility Type	Tank Battery

Surface Owner	Federal	Mineral Owner		Lease No.	
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	17	17S	30E					Eddy

Latitude 32 49.840 Longitude 103 59.763

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	300bbls	Volume Recovered	200bbls
Source of Release	6" produced water transmission line	Date and Hour of Occurrence	05/12/2010	Date and Hour of Discovery	05/12/2010 5:00 p.m.
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Mike Bratcher - OCD Terry Gregston - BLM		
By Whom?	Josh Russo	Date and Hour	05/13/2010	4:09 p.m.	
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

RECEIVED

OCT 17 2011

NMOCD ARTESIA

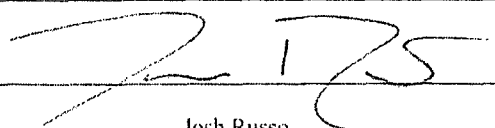
If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action Taken.*

The cause of the release was due to the failure of a poly weld on a 6" produced water transmission line. The line was immediately repaired and put back into service.

Describe Area Affected and Cleanup Action Taken.*

Initially 300bbls of produced water was released and we were able to recover 200bbls with a vacuum truck. The main area of the release on the pad location had the dimensions of 150'x130'. A stream then headed south on the pad location with the dimensions of 5'x100' before heading off the south end of the pad and into the pasture. The stream into the pasture went roughly 170'. (The closest well location to the release is the MCINTYRE DK FEDERAL #3, Unit N, 17-17S-30E, 660 FSL 1980 FWL, 32.82917 - 103.99629, API# 30-015-04186) 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 BLM / NMOCD for approval before any significant remediation.

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

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Josh Russo		Approved by District Supervisor:	
Title: HSE Coordinator		Approval Date:	Expiration Date:
E-mail Address: jrusso@conchoresources.com		Conditions of Approval:	
Date: 05/21/2010 Phone: 432-212-2399		Attached ☐	

* Attach Additional Sheets If Necessary

22P-530

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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1220 South St. Francis Dr.
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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	McIntyre DK Federal (Northwest Central)	Facility Type	Tank Battery

Surface Owner	Federal	Mineral Owner		Lease No.	NMNM-86025
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	17	17S	30E					Eddy

Latitude 32 49.804 Longitude 103 59.782

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	23bbls	Volume Recovered	20bbls
Source of Release	Oil Tank	Date and Hour of Occurrence	12/15/2010	Date and Hour of Discovery	12/15/2010 8:00a.m.
Was Immediate Notice Given?	☐ Yes ☒ No ☒ Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

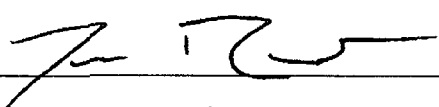
Describe Cause of Problem and Remedial Action Taken.*

The equalizer line was plugged causing the oil tank to overflow. The plugged equalizer line has been cleaned out.

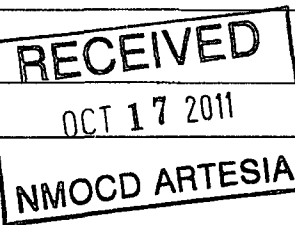
Describe Area Affected and Cleanup Action Taken.*

Initially 23bbls of oil was released from the oil tank and we were able to recover 20bbls with a vacuum truck. The oil traveled south on the pad location 3' x 100', and then off the pad roughly 30' towards a prior spill location. All oil has been picked up with a vacuum truck, pad material has been scraped of contaminates, tanks and lines have been steamed. (Well location on the same pad, McIntyre Federal #6, (API#) 30-015-20972).

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:	Josh Russo	Approved by District Supervisor:	
Title:	HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address:	jrusso@conchoresources.com	Conditions of Approval:	
Date:	12/17/2010	Phone:	432-212-2399
		Attached ☐	

* Attach Additional Sheets If Necessary



Appendix B

Water Well Data
Average Depth to Groundwater (ft)
North Central Tank Battery
Eddy County, New Mexico

16 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	23	24
110					
30	29	28	27	26	25
31	32	33	34	35	36

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

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

17 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	23	24
30	29	210	28	27	26
31	32	33	34	35	36

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

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

18 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	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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

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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

Appendix C

Summary Report

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

Report Date: July 2, 2010

Work Order: 10062804



Project Location: Eddy County, NM
Project Name: COG/SENM SWD System
Project Number: 114-6400547

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
235925	AH-1 0-1'	soil	2010-06-23	00:00	2010-06-25
235926	AH-1 1-1.5'	soil	2010-06-23	00:00	2010-06-25
235927	AH-1 2-2.5'	soil	2010-06-23	00:00	2010-06-25
235928	AH-2 0-1'	soil	2010-06-23	00:00	2010-06-25
235929	AH-2 1-1.5'	soil	2010-06-23	00:00	2010-06-25
235930	AH-2 2-2.5'	soil	2010-06-23	00:00	2010-06-25
235931	AH-2 3-3.5'	soil	2010-06-23	00:00	2010-06-25
235932	AH-2 4-4.5'	soil	2010-06-23	00:00	2010-06-25
235933	AH-2 5-5.5'	soil	2010-06-23	00:00	2010-06-25
235934	AH-2 6-6.5'	soil	2010-06-23	00:00	2010-06-25
235935	AH-2 7-7.5'	soil	2010-06-23	00:00	2010-06-25
235936	AH-2 8-8.5'	soil	2010-06-23	00:00	2010-06-25
235937	AH-3 0-1'	soil	2010-06-23	00:00	2010-06-25
235938	AH-4 0-1'	soil	2010-06-23	00:00	2010-06-25
235939	AH-4 1-1.5'	soil	2010-06-23	00:00	2010-06-25
235940	AH-4 2-2.5'	soil	2010-06-23	00:00	2010-06-25
235941	AH-4 3-3.5'	soil	2010-06-23	00:00	2010-06-25
235947	AH-5 0-1'	soil	2010-06-23	00:00	2010-06-25
235948	AH-5 1-1.5'	soil	2010-06-23	00:00	2010-06-25
235949	AH-6 0-1'	soil	2010-06-23	00:00	2010-06-25
235950	AH-7 0-1'	soil	2010-06-23	00:00	2010-06-25
235951	AH-7 1-1.5'	soil	2010-06-23	00:00	2010-06-25
235952	AH-7 2-2.5'	soil	2010-06-23	00:00	2010-06-25

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
235925 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00

continued ...

... continued

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
235928 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
235937 - AH-3 0-1'	<0.100	<0.100	<0.100	<0.100	366	<10.0
235938 - AH-4 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
235947 - AH-5 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
235949 - AH-6 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
235950 - AH-7 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00

Sample: 235925 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		15800	mg/Kg	4.00

Sample: 235926 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		6220	mg/Kg	4.00

Sample: 235927 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		7440	mg/Kg	4.00

Sample: 235928 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		4400	mg/Kg	4.00

Sample: 235929 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		6410	mg/Kg	4.00

Sample: 235930 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		7030	mg/Kg	4.00

Sample: 235931 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		5660	mg/Kg	4.00

Sample: 235932 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		3140	mg/Kg	4.00

Sample: 235933 - AH-2 5-5.5'

Param	Flag	Result	Units	RL
Chloride		2270	mg/Kg	4.00

Sample: 235934 - AH-2 6-6.5'

Param	Flag	Result	Units	RL
Chloride		1230	mg/Kg	4.00

Sample: 235935 - AH-2 7-7.5'

Param	Flag	Result	Units	RL
Chloride		314	mg/Kg	4.00

Sample: 235936 - AH-2 8-8.5'

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

Sample: 235937 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		1850	mg/Kg	4.00

Sample: 235938 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		6220	mg/Kg	4.00

Sample: 235939 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		3140	mg/Kg	4.00

Sample: 235940 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		614	mg/Kg	4.00

Sample: 235941 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		287	mg/Kg	4.00

Sample: 235947 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		1650	mg/Kg	4.00

Sample: 235948 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		3240	mg/Kg	4.00

Sample: 235949 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		2420	mg/Kg	4.00

Sample: 235950 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		2800	mg/Kg	4.00

Sample: 235951 - AH-7 1-1.5'

Param	Flag	Result	Units	RL
Chloride		4880	mg/Kg	4.00

Order #: 10062804

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 OF: 3

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME: CDG			SITE MANAGER: Ike Tavaroz			NUMBER OF CONTAINERS FILTERED (Y/N)	PRESERVATIVE METHOD				BTEX 8021B TPH 8015 MOD. 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. 8240/8260/824 GC/MS Semi. Vol. 8270/825 PCB's 8080/808 Pest. 808/608 Chloride Gamma Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Cations, pH, TDS									
PROJECT NO.: 114-6400547			PROJECT NAME: CDG / SENIM SWD System Eddy Co NM SAMPLE IDENTIFICATION				HCL	HNO3	ICE	NONE										
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB															
235926	6/23		S	X		AH-1	0-1'			X										
926						AH-1	1-1.5'													
927						AH-1	2-2.5'													
928						AH-2	0-1'													
929						AH-2	1-1.5'													
930						AH-2	2-2.5'													
931						AH-2	3-3.5'													
932						AH-2	4-4.5'													
933						AH-2	5-5.5'													
934						AH-2	6-6.5'													

RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: 6-23-10 Time: 16:50	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 6/23/10 Time: 16:50	SAMPLED BY: (Print & Initial) IT	Date: 6-23-10 Time: _____
RELINQUISHED BY: (Signature)	Date: _____ Time: _____	RECEIVED BY: (Signature)	Date: _____ Time: _____	SAMPLE SHIPPED BY: (Circle) FEDEX ☒ BUS ☐ HAND DELIVERED ☐ UPS ☐	AIRBILL #: _____ OTHER: _____
RELINQUISHED BY: (Signature)	Date: _____ Time: _____	RECEIVED BY: (Signature)	Date: _____ Time: _____	TETRA TECH CONTACT PERSON: Ike Tavaroz	Results by: RUSH Charges Authorized: Yes No

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

SAMPLE CONDITION WHEN RECEIVED: 3.2c intact

REMARKS: IF TPH > 5.00 mg/kg Run deeper Samples
IF BTEX Total > 500 ug Benzene > 10 Run deeper Samples

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

Order #: 10062804

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: 3

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COG

SITE MANAGER:

Ike Tavaraz

PROJECT NO.:

114-6400547

PROJECT NAME:

COG / SENM SWD System
Eddy Co NM
SAMPLE IDENTIFICATIONLAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

235935

6/23

S

X

AH-2

7-7.5'

936

AH-2

8-8.5'

937

AH-3

0-1'

938

AH-4

0-1'

939

AH-4

1-1.5'

940

AH-4

2-2.5'

941

AH-4

3-3.5'

942

AH-4

4-4.5'

943

AH-4

5-5.5'

944

AH-4

6-6.5'

RELINQUISHED BY: (Signature)

Date: 6-23-10

Time: 1650

RECEIVED BY: (Signature)

Date: 6/23/10

Time: 1650

SAMPLED BY: (Print & Initial)

TE

Date: 6-23-10

Time: 1650

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

HAND DELIVERED

UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

ADDRESS:

CITY:

CONTACT:

Trace

Midland

STATE:

TX

PHONE:

ZIP:

RECEIVED BY: (Signature)

DATE:

TIME:

SAMPLE CONDITION WHEN RECEIVED:

3.2° intact

REMARKS:

IF TPH > 5000 mg/kg Run deeper Samples

IF BTEX > 50 mg/kg Run deeper Samples

Ike Tavaraz

RUSH Charges

Authorized:

Yes No

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

Order #: 10062804

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 3

**TETRA TECH**

1910 N. Big Spring St.

Midland, Texas 79705

(432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COLG

SITE MANAGER:

Ike Tavaraz

PROJECT NO.:

114-6400547

PROJECT NAME:

COLG SENM SWD System

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP

GRAB

235945

6/23

S

X

AH-4

946

AH-4

947

AH-5

948

AH-5

949

AH-6

950

AH-7

951

AH-7

952

AH-7

RELINQUISHED BY: (Signature)

Date:

6-23-10

Time:

11:50

RECEIVED BY: (Signature)

Date:

6-23-10

Time:

11:50

SAMPLED BY: (Print & Initial)

TF

Date:

6-23-10

Time:

RELINQUISHED BY: (Signature)

Date:

Time

Summary Report

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

Report Date: March 22, 2011

Work Order: 11030728



Project Location: Eddy County, NM
Project Name: COG/North West Central Tank Battery
Project Number: 114-6400547

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
259804	SB-1 0-1'	soil	2011-02-25	00:00	2011-03-04
259805	SB-1 3'	soil	2011-02-25	00:00	2011-03-04
259806	SB-1 5'	soil	2011-02-25	00:00	2011-03-04
259807	SB-1 7'	soil	2011-02-25	00:00	2011-03-04
259808	SB-1 10'	soil	2011-02-25	00:00	2011-03-04
259809	SB-1 15'	soil	2011-02-25	00:00	2011-03-04
259810	SB-1 20'	soil	2011-02-25	00:00	2011-03-04
259811	SB-2 0-1'	soil	2011-02-25	00:00	2011-03-04
259812	SB-2 3'	soil	2011-02-25	00:00	2011-03-04
259813	SB-2 5'	soil	2011-02-25	00:00	2011-03-04
259814	SB-2 7'	soil	2011-02-25	00:00	2011-03-04
259815	SB-2 10'	soil	2011-02-25	00:00	2011-03-04
259816	SB-2 15'	soil	2011-02-25	00:00	2011-03-04
259817	SB-2 20'	soil	2011-02-25	00:00	2011-03-04
259818	SB-3 0-1'	soil	2011-02-25	00:00	2011-03-04
259819	SB-3 3'	soil	2011-02-25	00:00	2011-03-04
259820	SB-3 5'	soil	2011-02-25	00:00	2011-03-04
259821	SB-3 7'	soil	2011-02-25	00:00	2011-03-04
259822	SB-3 10'	soil	2011-02-25	00:00	2011-03-04
259823	SB-3 15'	soil	2011-02-25	00:00	2011-03-04
259824	SB-3 20'	soil	2011-02-25	00:00	2011-03-04
259825	SB-4 0-1'	soil	2011-03-01	00:00	2011-03-04
259826	SB-4 3'	soil	2011-03-01	00:00	2011-03-04
259827	SB-4 5'	soil	2011-03-01	00:00	2011-03-04
259828	SB-4 7'	soil	2011-03-01	00:00	2011-03-04
259829	SB-4 10'	soil	2011-03-01	00:00	2011-03-04
259830	SB-4 15'	soil	2011-03-01	00:00	2011-03-04
259831	SB-4 20'	soil	2011-03-01	00:00	2011-03-04
259832	SB-5 0-1'	soil	2011-03-01	00:00	2011-03-04
259833	SB-5 3'	soil	2011-03-01	00:00	2011-03-04

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
259834	SB-5 5'	soil	2011-03-01	00:00	2011-03-04
259835	SB-5 7'	soil	2011-03-01	00:00	2011-03-04
259836	SB-5 10'	soil	2011-03-01	00:00	2011-03-04
259837	SB-5 15'	soil	2011-03-01	00:00	2011-03-04
259838	SB-5 20'	soil	2011-03-01	00:00	2011-03-04
259839	SB-6 0-1'	soil	2011-03-01	00:00	2011-03-04
259840	SB-6 3'	soil	2011-03-01	00:00	2011-03-04
259841	SB-6 5'	soil	2011-03-01	00:00	2011-03-04
259842	SB-6 7'	soil	2011-03-01	00:00	2011-03-04
259843	SB-6 10'	soil	2011-03-01	00:00	2011-03-04
259844	SB-6 15'	soil	2011-03-01	00:00	2011-03-04
259845	SB-6 20'	soil	2011-03-01	00:00	2011-03-04
259846	SB-6 25'	soil	2011-03-01	00:00	2011-03-04
259847	SB-6 30'	soil	2011-03-01	00:00	2011-03-04
259848	SB-7 0-1'	soil	2011-03-01	00:00	2011-03-04
259849	SB-7 3'	soil	2011-03-01	00:00	2011-03-04
259850	SB-7 5'	soil	2011-03-01	00:00	2011-03-04
259851	SB-7 7'	soil	2011-03-01	00:00	2011-03-04
259852	SB-7 10'	soil	2011-03-01	00:00	2011-03-04
259853	SB-7 15'	soil	2011-03-01	00:00	2011-03-04
259854	SB-7 20'	soil	2011-03-01	00:00	2011-03-04
259855	SB-7 25'	soil	2011-03-01	00:00	2011-03-04
259856	SB-7 30'	soil	2011-03-01	00:00	2011-03-04

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
259804 - SB-1 0-1'	<0.0200	<0.0200	0.140	0.391	<50.0	6.69
259811 - SB-2 0-1'					<50.0	<2.00
259818 - SB-3 0-1'					<50.0	<2.00
259825 - SB-4 0-1'					<50.0	<2.00
259832 - SB-5 0-1'	2.86	82.8	64.8	86.0	3530	1730
259833 - SB-5 3'	3.60	75.1	69.9	89.6	2960	2850
259834 - SB-5 5'	<0.100	0.602	3.71	6.61	252	287
259839 - SB-6 0-1'	<0.200	3.16	17.8	34.7	3870	1530
259840 - SB-6 3'	<0.0200	0.159	<0.0200	<0.0200	<50.0	<2.00
259848 - SB-7 0-1'	5.25	86.5	87.6	120	10800	3640
259849 - SB-7 3'	1.37	46.9	39.5	63.7	1560	1240
259850 - SB-7 5'	<0.0200	<0.0200	0.150	<0.0200	<50.0	<2.00

Sample: 259804 - SB-1 0-1'

Param	Flag	Result	Units	RL
Chloride		15400	mg/Kg	4.00

Sample: 259805 - SB-1 3'

Param	Flag	Result	Units	RL
Chloride		5170	mg/Kg	4.00

Sample: 259806 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		4380	mg/Kg	4.00

Sample: 259807 - SB-1 7'

Param	Flag	Result	Units	RL
Chloride		569	mg/Kg	4.00

Sample: 259808 - SB-1 10'

Param	Flag	Result	Units	RL
Chloride		489	mg/Kg	4.00

Sample: 259809 - SB-1 15'

Param	Flag	Result	Units	RL
Chloride		359	mg/Kg	4.00

Sample: 259810 - SB-1 20'

Param	Flag	Result	Units	RL
Chloride		250	mg/Kg	4.00

Sample: 259811 - SB-2 0-1'

Param	Flag	Result	Units	RL
Chloride		6040	mg/Kg	4.00

Sample: 259812 - SB-2 3'

Param	Flag	Result	Units	RL
Chloride		3360	mg/Kg	4.00

Sample: 259813 - SB-2 5'

Param	Flag	Result	Units	RL
Chloride		405	mg/Kg	4.00

Sample: 259814 - SB-2 7'

Param	Flag	Result	Units	RL
Chloride		207	mg/Kg	4.00

Sample: 259815 - SB-2 10'

Param	Flag	Result	Units	RL
Chloride		281	mg/Kg	4.00

Sample: 259816 - SB-2 15'

Param	Flag	Result	Units	RL
Chloride		252	mg/Kg	4.00

Sample: 259817 - SB-2 20'

Param	Flag	Result	Units	RL
Chloride		232	mg/Kg	4.00

Sample: 259818 - SB-3 0-1'

Param	Flag	Result	Units	RL
Chloride		498	mg/Kg	4.00

Sample: 259819 - SB-3 3'

Param	Flag	Result	Units	RL
Chloride		2310	mg/Kg	4.00

Sample: 259820 - SB-3 5'

Param	Flag	Result	Units	RL
Chloride		957	mg/Kg	4.00

Sample: 259821 - SB-3 7'

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

Sample: 259822 - SB-3 10'

Param	Flag	Result	Units	RL
Chloride		249	mg/Kg	4.00

Sample: 259823 - SB-3 15'

Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00

Sample: 259824 - SB-3 20'

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

Sample: 259825 - SB-4 0-1'

Param	Flag	Result	Units	RL
Chloride		1210	mg/Kg	4.00

Sample: 259826 - SB-4 3'

Param	Flag	Result	Units	RL
Chloride		1290	mg/Kg	4.00

Sample: 259827 - SB-4 5'

Param	Flag	Result	Units	RL
Chloride		857	mg/Kg	4.00

Sample: 259828 - SB-4 7'

Param	Flag	Result	Units	RL
Chloride		717	mg/Kg	4.00

Sample: 259829 - SB-4 10'

Param	Flag	Result	Units	RL
Chloride		339	mg/Kg	4.00

Sample: 259830 - SB-4 15'

Param	Flag	Result	Units	RL
Chloride		204	mg/Kg	4.00

Sample: 259831 - SB-4 20'

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

Sample: 259832 - SB-5 0-1'

Param	Flag	Result	Units	RL
Chloride		5300	mg/Kg	4.00

Sample: 259833 - SB-5 3'

Param	Flag	Result	Units	RL
Chloride		5180	mg/Kg	4.00

Sample: 259834 - SB-5 5'

Param	Flag	Result	Units	RL
Chloride		3680	mg/Kg	4.00

Sample: 259835 - SB-5 7'

Param	Flag	Result	Units	RL
Chloride		1300	mg/Kg	4.00

Sample: 259836 - SB-5 10'

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

Sample: 259837 - SB-5 15'

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

Sample: 259838 - SB-5 20'

Param	Flag	Result	Units	RL
Chloride		235	mg/Kg	4.00

Sample: 259839 - SB-6 0-1'

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

Sample: 259840 - SB-6 3'

Param	Flag	Result	Units	RL
Chloride		2010	mg/Kg	4.00

Sample: 259841 - SB-6 5'

Param	Flag	Result	Units	RL
Chloride		1000	mg/Kg	4.00

Sample: 259842 - SB-6 7'

Param	Flag	Result	Units	RL
Chloride		418	mg/Kg	4.00

Sample: 259843 - SB-6 10'

Param	Flag	Result	Units	RL
Chloride		354	mg/Kg	4.00

Sample: 259844 - SB-6 15'

Param	Flag	Result	Units	RL
Chloride		251	mg/Kg	4.00

Sample: 259845 - SB-6 20'

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

Sample: 259846 - SB-6 25'

Param	Flag	Result	Units	RL
Chloride		221	mg/Kg	4.00

Sample: 259847 - SB-6 30'

Param	Flag	Result	Units	RL
Chloride		320	mg/Kg	4.00

Sample: 259848 - SB-7 0-1'

Param	Flag	Result	Units	RL
Chloride		1080	mg/Kg	4.00

Sample: 259849 - SB-7 3'

Param	Flag	Result	Units	RL
Chloride		4180	mg/Kg	4.00

Sample: 259850 - SB-7 5'

Param	Flag	Result	Units	RL
Chloride		2500	mg/Kg	4.00

Sample: 259851 - SB-7 7'

Param	Flag	Result	Units	RL
Chloride		419	mg/Kg	4.00

Sample: 259852 - SB-7 10'

Param	Flag	Result	Units	RL
Chloride		792	mg/Kg	4.00

Sample: 259853 - SB-7 15'

Param	Flag	Result	Units	RL
Chloride		324	mg/Kg	4.00

Sample: 259854 - SB-7 20'

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

Sample: 259855 - SB-7 25'

Param	Flag	Result	Units	RL
Chloride		279	mg/Kg	4.00

Sample: 259856 - SB-7 30'

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

*WO# 11030728

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 6

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

CLIENT NAME:

COG

SITE MANAGER:

Ike Tavares

PROJECT NO.:

114-6400547

PROJECT NAME:

North West Central Tank Battery

LAB I.D.
NUMBER

DATE

TIME

MATRIX
COMP
GRAB
 Edaly Co., NM
 SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO₃

ICE

NONE

PRESERVATIVE
METHOD

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	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

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RELINQUISHED BY: (Signature)

Date: 3-4-11

Time: 1615

RECEIVED BY: (Signature)

Date: 3/4/11

Time: 1615

SAMPLED BY: (Print & Initial)

Kim

Date: 2/25/11

Time: 2/25/11

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

SAMPLE SHIPPED BY: (Circle)

FEDEX BUS

AND DELIVERED UPS

AIRBILL #: _____

OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____

Time: _____

RECEIVED BY: (Signature)

Date: _____

Time: _____

TETRA TECH CONTACT PERSON:

Ike Tavares

Results by:

RUSH Charges

Authorized:

Yes No

RECEIVING LABORATORY:

TRACE

ADDRESS:

CITY: MIDLAND

STATE: TX

ZIP: _____

CONTACT:

PHONE: _____

DATE: _____

TIME: _____

SAMPLE CONDITION WHEN RECEIVED:

21.0°C intact

REMARKS:

 IF total TPH < 5000 mg/kg run deeper samples
 Run BTEX on 4 Highest TPH

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

*WO# 11030728

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 6

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

CLIENT NAME:

COG

SITE MANAGER:

Ike Tavaraz

PROJECT NO.:

1146400547

PROJECT NAME:

North West Central Tank Battery

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP:

GRAB

 Eddy Co., TX
 SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

BTEX 8021B

CCL 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

PCB's 8080/608

Pest. 808/608

Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

259824

2/25

S

X

SB-3 20'

825

3/1

S

X

SD-4 0-1

826

SD-4 3'

827

SD-4 5'

828

SD-4 7'

829

SD-4 10'

830

SD-4 15'

831

SD-4 20'

832

SD-5 0-1'

833

SD-5 3'

RELINQUISHED BY: (Signature)

Date:

3-4-11

Time:

1615

RECEIVED BY: (Signature)

Date:

3/4/11

Time:

11:13

SAMPLED BY: (Print & Initial)

Kim

Date:

2/25/11

RELINQUISHED BY: (Signature)

Date:

RECEIVED BY: (Signature)

Date:

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #:

RELINQUISHED BY: (Signature)

Date:

RECEIVED BY: (Signature)

Date:

AND DELIVERED

UPS

OTHER:

RECEIVING LABORATORY:

ADDRESS:

CITY: MIDLAND

STATE: TX

ZIP:

CONTACT:

PHONE:

DATE:

TIME:

RECEIVED BY: (Signature)

TETRA TECH CONTACT PERSON:

Ike Tavaraz

Results by:

RUSH Charges

Authorized:

Yes

No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

4.0 c intact

V6

Summary Report

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

Report Date: August 30, 2010

Work Order: 10082003



Project Location: Eddy County, NM
Project Name: COG/SENM SWD System
Project Number: 114-6400547

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241833	SB-1 1'	soil	2010-08-17	00:00	2010-08-20
241834	SB-1 3'	soil	2010-08-17	00:00	2010-08-20
241835	SB-1 5'	soil	2010-08-17	00:00	2010-08-20
241836	SB-1 7'	soil	2010-08-17	00:00	2010-08-20
241837	SB-1 10'	soil	2010-08-17	00:00	2010-08-20
241838	SB-1 15'	soil	2010-08-17	00:00	2010-08-20
241839	SB-1 20'	soil	2010-08-17	00:00	2010-08-20
241842	SB-2 1'	soil	2010-08-17	00:00	2010-08-20
241843	SB-2 3'	soil	2010-08-17	00:00	2010-08-20
241844	SB-2 5'	soil	2010-08-17	00:00	2010-08-20
241845	SB-2 7'	soil	2010-08-17	00:00	2010-08-20
241846	SB-2 10'	soil	2010-08-17	00:00	2010-08-20
241847	SB-2 15'	soil	2010-08-17	00:00	2010-08-20
241848	SB-2 20'	soil	2010-08-17	00:00	2010-08-20
241849	SB-3 1'	soil	2010-08-17	00:00	2010-08-20
241850	SB-3 3'	soil	2010-08-17	00:00	2010-08-20
241851	SB-3 5'	soil	2010-08-17	00:00	2010-08-20
241852	SB-3 7'	soil	2010-08-17	00:00	2010-08-20
241853	SB-3 10'	soil	2010-08-17	00:00	2010-08-20
241854	SB-3 15'	soil	2010-08-17	00:00	2010-08-20
241857	SB-4 1'	soil	2010-08-17	00:00	2010-08-20
241858	SB-4 3'	soil	2010-08-17	00:00	2010-08-20
241859	SB-4 5'	soil	2010-08-17	00:00	2010-08-20
241860	SB-4 7'	soil	2010-08-17	00:00	2010-08-20
241861	SB-4 10'	soil	2010-08-17	00:00	2010-08-20
241862	SB-4 15'	soil	2010-08-17	00:00	2010-08-20
241863	SB-4 20'	soil	2010-08-17	00:00	2010-08-20
241864	SB-4 25'	soil	2010-08-17	00:00	2010-08-20
241865	SB-4 30'	soil	2010-08-17	00:00	2010-08-20
241867	SB-5 1'	soil	2010-08-18	00:00	2010-08-20

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
241868	SB-5 3'	soil	2010-08-18	00:00	2010-08-20
241869	SB-5 5'	soil	2010-08-18	00:00	2010-08-20
241870	SB-5 7'	soil	2010-08-18	00:00	2010-08-20
241871	SB-5 10'	soil	2010-08-18	00:00	2010-08-20
241872	SB-5 15'	soil	2010-08-18	00:00	2010-08-20
241873	SB-5 20'	soil	2010-08-18	00:00	2010-08-20
241876	SB-6 1'	soil	2010-08-18	00:00	2010-08-20
241877	SB-6 3'	soil	2010-08-18	00:00	2010-08-20
241878	SB-6 5'	soil	2010-08-18	00:00	2010-08-20
241879	SB-6 7'	soil	2010-08-18	00:00	2010-08-20
241880	SB-6 10'	soil	2010-08-18	00:00	2010-08-20
241881	SB-6 15'	soil	2010-08-18	00:00	2010-08-20
241882	SB-6 20'	soil	2010-08-18	00:00	2010-08-20
241883	SB-7 1'	soil	2010-08-18	00:00	2010-08-20
241884	SB-7 3'	soil	2010-08-18	00:00	2010-08-20
241885	SB-7 5'	soil	2010-08-18	00:00	2010-08-20
241886	SB-7 7'	soil	2010-08-18	00:00	2010-08-20
241887	SB-7 10'	soil	2010-08-18	00:00	2010-08-20
241888	SB-7 15'	soil	2010-08-18	00:00	2010-08-20
241889	SB-7 20'	soil	2010-08-18	00:00	2010-08-20
241890	SB-7 25'	soil	2010-08-18	00:00	2010-08-20
241891	SB-7 30'	soil	2010-08-18	00:00	2010-08-20
241892	SB-8 1'	soil	2010-08-18	00:00	2010-08-20
241893	SB-8 3'	soil	2010-08-18	00:00	2010-08-20
241894	SB-8 5'	soil	2010-08-18	00:00	2010-08-20
241895	SB-8 7'	soil	2010-08-18	00:00	2010-08-20
241896	SB-8 10'	soil	2010-08-18	00:00	2010-08-20
241897	SB-8 15'	soil	2010-08-18	00:00	2010-08-20
241898	SB-8 20'	soil	2010-08-18	00:00	2010-08-20
241899	SB-8 25'	soil	2010-08-18	00:00	2010-08-20
241900	SB-8 30'	soil	2010-08-18	00:00	2010-08-20
241901	SB-8 40'	soil	2010-08-18	00:00	2010-08-20

Sample - Field Code	BTEx				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
241833 - SB-1 1'					<50.0	<2.00
241842 - SB-2 1'					<50.0	<2.00
241849 - SB-3 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241857 - SB-4 1'	<0.100	0.481	0.245	1.21	593	83.0
241867 - SB-5 1'	<0.200	<0.200	0.204	0.815	3060	<20.0
241876 - SB-6 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
241883 - SB-7 1'					<50.0	<2.00
241892 - SB-8 1'					<50.0	<2.00

Sample: 241833 - SB-1 1'

Param	Flag	Result	Units	RL
Chloride		1870	mg/Kg	4.00

Sample: 241834 - SB-1 3'

Param	Flag	Result	Units	RL
Chloride		2780	mg/Kg	4.00

Sample: 241835 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		4380	mg/Kg	4.00

Sample: 241836 - SB-1 7'

Param	Flag	Result	Units	RL
Chloride		504	mg/Kg	4.00

Sample: 241837 - SB-1 10'

Param	Flag	Result	Units	RL
Chloride		248	mg/Kg	4.00

Sample: 241838 - SB-1 15'

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

Sample: 241839 - SB-1 20'

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

Sample: 241842 - SB-2 1'

Param	Flag	Result	Units	RL
Chloride		19400	mg/Kg	4.00

Sample: 241843 - SB-2 3'

Param	Flag	Result	Units	RL
Chloride		22800	mg/Kg	4.00

Sample: 241844 - SB-2 5'

Param	Flag	Result	Units	RL
Chloride		1350	mg/Kg	4.00

Sample: 241845 - SB-2 7'

Param	Flag	Result	Units	RL
Chloride		300	mg/Kg	4.00

Sample: 241846 - SB-2 10'

Param	Flag	Result	Units	RL
Chloride		230	mg/Kg	4.00

Sample: 241847 - SB-2 15'

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

Sample: 241848 - SB-2 20'

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

Sample: 241849 - SB-3 1'

Param	Flag	Result	Units	RL
Chloride		2440	mg/Kg	4.00

Sample: 241850 - SB-3 3'

Param	Flag	Result	Units	RL
Chloride		703	mg/Kg	4.00

Sample: 241851 - SB-3 5'

Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00

Sample: 241852 - SB-3 7'

Param	Flag	Result	Units	RL
Chloride		295	mg/Kg	4.00

Sample: 241853 - SB-3 10'

Param	Flag	Result	Units	RL
Chloride		337	mg/Kg	4.00

Sample: 241854 - SB-3 15'

Param	Flag	Result	Units	RL
Chloride		244	mg/Kg	4.00

Sample: 241857 - SB-4 1'

Param	Flag	Result	Units	RL
Chloride		6630	mg/Kg	4.00

Sample: 241858 - SB-4 3'

Param	Flag	Result	Units	RL
Chloride		8770	mg/Kg	4.00

Sample: 241859 - SB-4 5'

Param	Flag	Result	Units	RL
Chloride		399	mg/Kg	4.00

Sample: 241860 - SB-4 7'

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

Sample: 241861 - SB-4 10'

Param	Flag	Result	Units	RL
Chloride		422	mg/Kg	4.00

Sample: 241862 - SB-4 15'

Param	Flag	Result	Units	RL
Chloride		413	mg/Kg	4.00

Sample: 241863 - SB-4 20'

Param	Flag	Result	Units	RL
Chloride		554	mg/Kg	4.00

Sample: 241864 - SB-4 25'

Param	Flag	Result	Units	RL
Chloride		404	mg/Kg	4.00

Sample: 241865 - SB-4 30'

Param	Flag	Result	Units	RL
Chloride		291	mg/Kg	4.00

Sample: 241867 - SB-5 1'

Param	Flag	Result	Units	RL
Chloride		3460	mg/Kg	4.00

Sample: 241868 - SB-5 3'

Param	Flag	Result	Units	RL
Chloride		2520	mg/Kg	4.00

Sample: 241869 - SB-5 5'

Param	Flag	Result	Units	RL
Chloride		385	mg/Kg	4.00

Sample: 241870 - SB-5 7'

Param	Flag	Result	Units	RL
Chloride		208	mg/Kg	4.00

Sample: 241871 - SB-5 10'

Param	Flag	Result	Units	RL
Chloride		532	mg/Kg	4.00

Sample: 241872 - SB-5 15'

Param	Flag	Result	Units	RL
Chloride		449	mg/Kg	4.00

Sample: 241873 - SB-5 20'

Param	Flag	Result	Units	RL
Chloride		319	mg/Kg	4.00

Sample: 241876 - SB-6 1'

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

Sample: 241877 - SB-6 3'

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

Sample: 241878 - SB-6 5'

Param	Flag	Result	Units	RL
Chloride		2180	mg/Kg	4.00

Sample: 241879 - SB-6 7'

Param	Flag	Result	Units	RL
Chloride		981	mg/Kg	4.00

Sample: 241880 - SB-6 10'

Param	Flag	Result	Units	RL
Chloride		342	mg/Kg	4.00

Sample: 241881 - SB-6 15'

Param	Flag	Result	Units	RL
Chloride		250	mg/Kg	4.00

Sample: 241882 - SB-6 20'

Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00

Sample: 241883 - SB-7 1'

Param	Flag	Result	Units	RL
Chloride		3470	mg/Kg	4.00

Sample: 241884 - SB-7 3'

Param	Flag	Result	Units	RL
Chloride		4150	mg/Kg	4.00

Sample: 241885 - SB-7 5'

Param	Flag	Result	Units	RL
Chloride		614	mg/Kg	4.00

Sample: 241886 - SB-7 7'

Param	Flag	Result	Units	RL
Chloride		594	mg/Kg	4.00

Sample: 241887 - SB-7 10'

Param	Flag	Result	Units	RL
Chloride		468	mg/Kg	4.00

Sample: 241888 - SB-7 15'

Param	Flag	Result	Units	RL
Chloride		253	mg/Kg	4.00

Sample: 241889 - SB-7 20'

Param	Flag	Result	Units	RL
Chloride		287	mg/Kg	4.00

Sample: 241890 - SB-7 25'

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

Sample: 241891 - SB-7 30'

Param	Flag	Result	Units	RL
Chloride		292	mg/Kg	4.00

Sample: 241892 - SB-8 1'

Param	Flag	Result	Units	RL
Chloride		863	mg/Kg	4.00

Sample: 241893 - SB-8 3'

Param	Flag	Result	Units	RL
Chloride		1430	mg/Kg	4.00

Sample: 241894 - SB-8 5'

Param	Flag	Result	Units	RL
Chloride		1900	mg/Kg	4.00

Sample: 241895 - SB-8 7'

Param	Flag	Result	Units	RL
Chloride		1260	mg/Kg	4.00

Sample: 241896 - SB-8 10'

Param	Flag	Result	Units	RL
Chloride		456	mg/Kg	4.00

Sample: 241897 - SB-8 15'

Param	Flag	Result	Units	RL
Chloride		739	mg/Kg	4.00

Sample: 241898 - SB-8 20'

Param	Flag	Result	Units	RL
Chloride		481	mg/Kg	4.00

Sample: 241899 - SB-8 25'

Param	Flag	Result	Units	RL
Chloride		496	mg/Kg	4.00

Sample: 241900 - SB-8 30'

Param	Flag	Result	Units	RL
Chloride		337	mg/Kg	4.00

Sample: 241901 - SB-8 40'

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

WO #: 10082003

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 OF: 7

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COX

SITE MANAGER:

Ike Tavaraz

PROJECT NO.:

114-6400547

PROJECT NAME:

SENM SWD

LAB I.D.
NUMBER

DATE
2010

TIME

MATRIX

COMP

GRAB

Eddy Co NW
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

ROFA 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 8090/608

Pest. 808/608

Chlorides

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

241833

8/17

S

X

SB-1

1'

1

X

834

SB-1

3'

835

SB-1

5'

836

SB-1

7'

837

SB-1

10'

838

SB-1

15'

839

SB-1

20'

840

SB-1

25'

841

SB-1

30'

842

SB-2

1'

WO #: 10082003

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PAGE: 2

OF: 7

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COG

SITE MANAGER:

Ike Tavaraz

PROJECT NO.:

114-6400547

PROJECT NAME:

JENM JWD

LAB I.D.
NUMBER

DATE
8010

TIME

MATRIX

COMP

GRAB

Eddy Co NM
SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

HCL

HNO3

ICE

NONE

PRESERVATIVE
METHOD

CEX 8021P
TPH 8015 MOD TX1005 (Ext. to C35)

PAH 8270

ICRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

ICI

GC/MS Vol. 8240/8260/624

GC/MS Semi. Vol. 8270/825

PCB's 8080/808

Pest. 808/608

Chlorides

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Major Anions/Cations, pH, TDS

RELINQUISHED BY: (Signature)

Date: 8-19-11

RECEIVED BY: (Signature)

Date: 8-17-10

SAMPLED BY: (Print & Initial)

KD

Date: 8-17-10

RELINQUISHED BY: (Signature)

Date: 8-19-11

RECEIVED BY: (Signature)

Date: 8-17-10

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #: 8-17-10

HAND DELIVERED

UPS

OTHER: 8-17-10

RECEIVING LABORATORY: Trace

ADDRESS:

CITY: Midland

STATE: TX

ZIP:

CONTACT:

PHONE:

RECEIVED BY: (Signature)

8-19-11

TIME: 9:40

TETRA TECH CONTACT PERSON:

Ike Tavaraz

Results by:

RUSH Charges

Authorized:

Yes No

SAMPLE CONDITION WHEN RECEIVED:

3.0°C intact

REMARKS:

If TPH exceeds 5000 mg/kg run deeper sample

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 RTFX on 4 deepest TPH

WD#: 10082003

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PAGE: 6 OF: 7

**TETRA TECH**

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ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:

COG

SITE MANAGER:

Ile Tavaroz

PROJECT NO.:

114-6400547

PROJECT NAME:

DENIM SWD

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION		NUMBER OF FILTERED (Y)	HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015	PAH 8270	RCRA Metals	TCLP Metals	TCLP Volatiles	TCLP Semi V	RCI	GC/MS Vol. 8	GC/MS Semi	PCB's 8080/60	Pest. 808/60	Chlorides	Gamma Spec	Alpha Beta (4	PLM (Asbest	Major Anions	
241883	8/18		S		X	SB-7	1'	1			X			X											X					
884						SB-7	3'																		X					
885						SB-7	5'																		X					
886						SB-7	7'																		X					
887						SB-7	10'																		X					
888						SB-7	15'																		X					
889						SB-7	20'																		X					
890						SB-7	25'																		X					
891						SB-7	30'																		X					
892						SB-8	1'																		X					

RELINQUISHED BY: (Signature)

Date: August 19, 2010

RECEIVED BY: (Signature)

Date: 8-19-10

SAMPLED BY: (Print & Initial)

Date: 8-19-10

RELINQUISHED BY: (Signature)

Date: 8/19

RECEIVED BY: (Signature)

Date: 8-19-10

SAMPLE SHIPPED BY: (Circle)

AIRBILL #: _____

RELINQUISHED BY: (Signature)

Date: _____

RECEIVED BY: (Signature)

Date: _____

FEDEX

BUS

OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____

RECEIVED BY: (Signature)

Date: _____

HAND DELIVERED

UPS

OTHER: _____

RELINQUISHED BY: (Signature)

Date: _____

RECEIVED BY: (Signature)

Date: _____

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY: Trace

RECEIVED BY: (Signature)

Date: 8-19-10

ADDRESS: Midland

STATE: TX

ZIP: _____

CONTACT: _____

PHONE: _____

DATE: 8-19-10

TIME: 9:40

Ile Tavaroz

RUSH Charges

Authorized:

Yes No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

3.0 c. intact

IF TPH exceeds 5000 mg/kg run deeper sample

Run BTX on 4 highest TPH

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

WO #: 10082003

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PAGE: 7 OF: 7

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: COG				SITE MANAGER: Ike Taravez				NUMBER OF CONTAINERS FILTERED (Y/N)		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. 8240/8260/824 GC/MS Semi. Vol. 8270/625 PCB's 8080/608 Pest. 808/608 Environ Gamma Spec. Alpha Beta (Air) PLM (Asbestos) Major Anions/Cations, pH, TDS															
PROJECT NO.: 114-6400547				PROJECT NAME: DENM SWD																							
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION																					
	2010																										
241893	8/8		S	X		SB-8 3'		1		X																	
894						SB-8 5'																					
895						SB-8 7'																					
896						SB-8 10'																					
897						SB-8 15'																					
898						SB-8 20'																					
899						SB-8 25'																					
900						SB-8 30'																					
901						SB-8 40'																					
902						SB-8 50'																					
RELINQUISHED BY: (Signature)				Date: August 19, 2010				RECEIVED BY: (Signature)				Date: 8-18-10				SAMPLED BY: (Print & Initial)				Date: 8-18-10							
RELINQUISHED BY: (Signature)				Date: 9/10				RECEIVED BY: (Signature)				Date: 9/10				SAMPLE SHIPPED BY: (Circle)				AIRBILL #: RD							
RELINQUISHED BY: (Signature)				Date: 9/10				RECEIVED BY: (Signature)				Date: 9/10				FEDEX ☒ BUS ☐				OTHER: UPS							
RECEIVING LABORATORY: Trace				ADDRESS: Midland STATE: Tx ZIP: 				RECEIVED BY: (Signature) Ike Taravez				DATE: 8-19-10 TIME: 9:40				TETRA TECH CONTACT PERSON: Ike Taravez				Results by: 							
SAMPLE CONDITION WHEN RECEIVED: 3.B.C. Intact				REMARKS: If TPH exceeds 5000 mg/kg run deeper sample																RUSH Charges Authorized: No							

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 4 highest TPH