

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

PJXK 1535532348
4045
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 1300 Midland, Texas 79701	Telephone No.	(432) 685-4332
Facility Name	Pronghorn SWD System	Facility Type	SWD—LINE (8 inch valve box tee)
Surface Owner: Federal	Mineral Owner	Lease No. API#	30-025-32735

LOCATION OF RELEASE

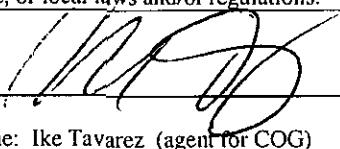
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	18S	32E					Lea

Latitude N32 43.833 Longitude W103 43.965

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 1160bbls	Volume Recovered 910bbls
Source of Release 8 inch PVC tee in valve box	Date and Hour of Occurrence 06/18/2010	Date and Hour of Discovery 06/18/2010 11:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson—OCD Geoffrey Leking—OCD Paul Evans--BLM	
By Whom? Josh Russo	Date and Hour 06/19/2010 1:47 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* An 8 inch PVC tee failed and cause the release. The tee has been replaced and put back into service.		
Describe Area Affected and Cleanup Action Taken.* Tetra Tech inspected site and collected samples to define spills extent. As approved, the elevated chloride concentrations were removed to a depth of 5.0' below surface and capped the remaining impact with a 40 mil liner. The excavated soil was transported to proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared 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 (agent for COG)	Approval Date:	Expiration Date:
Title: Project Manager	Conditions of Approval:	
E-mail Address: ike.tavarez@tetrattech.com	Attached ☐	
Date: 8-13-12 Phone: (432) 682-4559		

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company COG Operating LLC	Contact Pat Ellis	
Address 550 W. Texas, Suite 1300 Midland, Texas 79701	Telephone No. (432) 685-4332	
Facility Name Pronghorn SWD System	Facility Type SWD—LINE (8 inch valve box tee)	
Surface Owner: Federal	Mineral Owner	Lease No. API# 30-025-32735

LOCATION OF RELEASE

Unit Letter J	Section 23	Township 18S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude **N32 43.847** Longitude **W103 43.959**

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release 100bbls	Volume Recovered 70bbls
Source of Release SWD 8" main line (PVC flanges at ball valve)	Date and Hour of Occurrence 07/14/2010	Date and Hour of Discovery 07/14/2010 7:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson—OCD Geoffrey Leking—OCD Paul Evans--BLM	
By Whom? Josh Russo	Date and Hour 07/14/2010 3:40 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

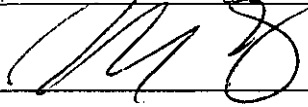
Describe Cause of Problem and Remedial Action Taken.*

The PVC flanges failed on both sides of the ball valve. Both flanges and the inoperable ball valve have been removed; dresser sleeves and straight pipe have been installed in its place. The repaired site is under the continual monitoring of night watchmen for at least 4 days as we slowly put the line back into full service.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech inspected site and collected samples to define spills extent. As approved, the elevated chloride concentrations were removed to a depth of 5.0' below surface and capped the remaining impact with a 40 mil liner. The excavated soil was transported to proper disposal. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared 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.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Ike Tavarez (agent for COG)		Approved by District Supervisor:	
Title: Project Manager		Approval Date:	Expiration Date:
E-mail Address: ike.tavarez@tetrattech.com		Conditions of Approval:	
Date: 3-13-12 Phone: (432) 686-3023		Attached ☐	

Attach Additional Sheets If Necessary

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0560

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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	PRONGHORN SWD SYSTEM	Facility Type	SWD - LINE (8 inch valve box tee)
Surface Owner	Federal	Mineral Owner	
		Lease No.	API# 30-025-32735

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	23	18S	32E					Lea

Latitude 32 43.833 Longitude 103 43.965

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	1160bbls	Volume Recovered	910bbls
Source of Release	8 inch PVC tee in valve box	Date and Hour of Occurrence	06/18/2010	Date and Hour of Discovery	06/18/2010 11:00 a.m.
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?			
		Larry Johnson—OCD Geoffrey Leking—OCD Paul Evans—BLM			
By Whom?	Josh Russo	Date and Hour	06/19/2010 1:47 p.m.		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

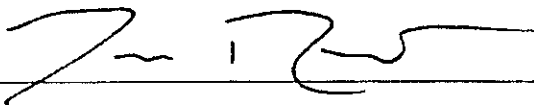
Describe Cause of Problem and Remedial Action Taken.*

An 8 inch PVC tee failed and caused the release. The tee has been replaced and put back into service.

Describe Area Affected and Cleanup Action Taken.*

We had an initial release of 250bbls of produced water along the Pronghorn SWD ROW and we were not able to recover any fluid. The release had a spill area with the dimensions of 400' long and no greater than 40' wide, with slight overspray. While making emergency repairs, we drained the line recovering 910bbls of produced water from the valve box on the south side of the road. The chloride concentration of the produced water in this area is 135,500 mg/l. (The closest well location to this release is the Mewbourne Oil Company, QPBSSU 3-7, NM OCD Order #R-9985, Init 1, 2310 FSL 990 FEL, Sec. 23-T-18S-R32E, Lea county, NM, NMNM88523X). Tetra Tech will sample the spill site area to delineate any possible contamination and we will present a remediation work plan to the BLM/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:				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:	Attached ☐
Date:	06/22/2010		Phone:	432-212-2399	

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

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☒ 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	Pronghorn SWD System	Facility Type	8" main line (PVC flanges)

Surface Owner	Federal	Mineral Owner		Lease No.	API# 30-025-32735
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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
J	23	18S	32E					Lea

Latitude 32 43.847 Longitude 103 43.959

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	100bbls	Volume Recovered	70bbls
Source of Release	SWD 8" main line (PVC flanges at ball valve)	Date and Hour of Occurrence	07/14/2010	Date and Hour of Discovery	07/14/2010 7:00 a.m.

Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Larry Johnson-OCD Geoffrey Leking-OCD Paul Evans-BLM
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By Whom?	Josh Russo	Date and Hour	07/14/2010 3:40 p.m.
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Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
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If a Watercourse was Impacted, Describe Fully.*

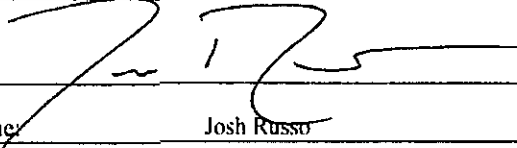
Describe Cause of Problem and Remedial Action Taken.*

The PVC flanges failed on both sides of ball valve. Both flanges and the inoperable ball valve have been removed; dresser sleeves and straight pipe have been installed in its place. The repaired site is under the continual monitoring of night watchmen for at least 4 days as we slowly put the line back into full service.

Describe Area Affected and Cleanup Action Taken.*

Initially 100bbls of produced water was released from the main line. We were able to recover 70bbls with a vacuum truck; All free fluid was recovered. The majority of the fluid remained on the COG ROW (measuring an area in the pasture of 20 yards x 10 yards) with the exception of a 40 yard x 5 yard area on a nearby Mewbourne lease road. The lease road has been returned to its normal condition. The chloride concentration of the produced water in this area is 135,000 mg/l. 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 your 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:				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:	Attached ☐
Date:	07/16/2010			Phone:	432-212-2399



TETRA TECH

pJXK1535532348

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APR 15 2011

HOBBSD

March 17, 2011

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

Re: Work Plan for the COG Operating LLC., Pronghorn SWD System Line Leak, Unit J, Section 23, Township 18 South, Range 32 East, Lea County, New Mexico.

Mr.: Leking

Tetra Tech Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill at the Pronghorn SWD Line Leak located in Unit J, Section 23, Township 18 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32° 43.833', W 103° 43.965'. The site location is shown on Figures 1 and 2.

Background

June 18, 2010

According to the State of New Mexico C-141 Initial Report, the leak occurred on the main SWD line (PVC) at the valve box when the 8" PVC tee failed releasing approximately 1,160 barrels of produced water. A total of 910 barrels of standing fluid were recovered using a vacuum truck. The line was repaired and placed back into service. The spill migrated southwest in the pasture approximately 500' and majority of the fluids remained on the COG right-a way. The initial C-141 is included in Appendix C.

July 14, 2010

According to the State of New Mexico C-141 Initial Report, the second leak occurred on the main SWD line at the valve box. The PVC flange at the ball valve failed and released approximately 100 barrels of produced water. A total of

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com

REVIEWED
4/17/11

DEC 22 2015



70 barrels of standing fluid were recovered for the site. The line was repaired and placed back into service. The spill remained on the COG right-a way, top of the first spill foot print. COG immediately excavated the hydrocarbon impact along the right-a-way to a depth of 2.0' below surface and hauled the soil to proper disposal. The initial C-141 is included in Appendix C.

Groundwater

The United States Geological Survey (USGS) database did showed wells in Section 7 and 16, Township 18 South, Range 32 East, with a reported depth to water of approximately 82' and 84', respectively. The New Mexico State Engineer Well Reports showed wells with reported depths of 65' (Section 4) and 460' (Section 7). The NMOCD groundwater map shows also shows wells in Section 20, 22 and 34, with groundwater depths at approximately 164', 429' and 117', respectively. Based on the groundwater map, the depth to groundwater for the Site appears to be greater than 100' bgs. The well reports and average depth to water map are shown in Appendix A.

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 Results

The produced water impacted an area southeast of the valve box. The foot print of the spill measured approximately 500' in length and a width of 75' to 200'. Majority of the spill migrated along and eastside of the SWD line. Recently, COG has installed a new SWD line (poly line) to replace the old SWD (PVC) line. The new line was installed west of the old SWD line, approximately 10' to 15'. Prior installation of the line, the area of SB-20 was excavated down to 4.0' below surface and hauled the soil to proper disposal. The excavated area measured approximately 40' x 60'. Prior to installation of the new SWD line, the bottom of the excavation was lined with a 40 mil liner.



Soil Borings

From July 21 through On July 27, 2010, Tetra Tech personnel supervised the installation of twenty-one (21) soil borings (SB-1 through SB-21) utilizing an air rotary rig. The soil borings were extended to a maximum depth of 40 feet bgs, with samples collected at 2 to 3 foot intervals for the first 10 feet and 5 foot intervals to 30' and 10' intervals thereafter. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The results of the sampling are summarized in Table 1. The soil boring locations are shown on Figure 3.

Referring to Table 1, none of the selected for TPH and BTEX exceeded the RRAL. Soil borings (SB-9, SB-10, SB-17 and SB-19) did not show a chloride impact to the soils. The analytical results indicate the maximum extent of chloride impact greater than 1,000 mg/kg extended from 7' (SB-1, SB-2 and SB-20), 10' (SB-5, SB-12, SB-13, SB-14 and SB-18), 15' (SB-3, SB-4, SB-7, SB-8 and SB-11) and 20' (SB-6). All samples had chloride concentrations that decreased with depth and vertically defined.

Soil borings (SB-15, SB-16 and SB-21) did not show a significant impact from surface to approximately 5'-10' bgs. The soil borings showed chloride greater than 1,000 mg/kg from 10' to 15' bgs, 5' to 7' and at 5' and 15', respectively.

Based on the data, Figures 5 and 6 (Cross-Sections A-A' and B-B') were developed to evaluate distribution of the chloride impact in the subsurface soils. As shown in the A-A' Cross Section, the elevated chloride concentrations ranged from 5,000 to >10,000 mg/kg at depths from approximately 5' to 15' below surface and declines significantly with depth. The deepest chloride impact was encountered in the areas of SB-6, SB-7 and SB-4 at depths declining at 15' to 20' below surface. Referring to B-B' Cross Section, the perimeter soil borings data showed elevated chloride concentrations in the areas of SB-11, SB-12 and SB-13 at depths ranging from approximately 5.0' to 10.0' below surface.

Work Plan

In order to remediate the site, COG proposes to excavate the impacted soils. The goal of the remediation is to establish surface growth and to reduce the environmental liabilities for the protection of the groundwater.

On March 15, 2011, Tetra Tech and COG met with Geoffrey Leking with NMOCD to discuss the results of the investigation. Based on groundwater depth and results, Mr. Leking approved the removal of 5.0' of the impacted soil and

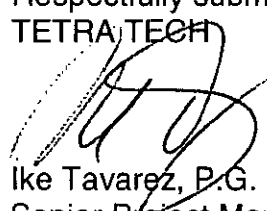


TETRA TECH

capping the excavation with a 40 mil liner. The proposed excavation depth and liner installation are shown on Figure 5 and 6 (Cross-Sections A-A' and B-B') and Table 1. During the excavation, Tetra Tech will field screen the soil (chlorides) to capture the spill foot print (horizontal extents) on the north and south of the spill. Once completed, the liner (40 mil) will be installed at a depth of 5' below surface and the excavation backfilled with clean soil to grade.

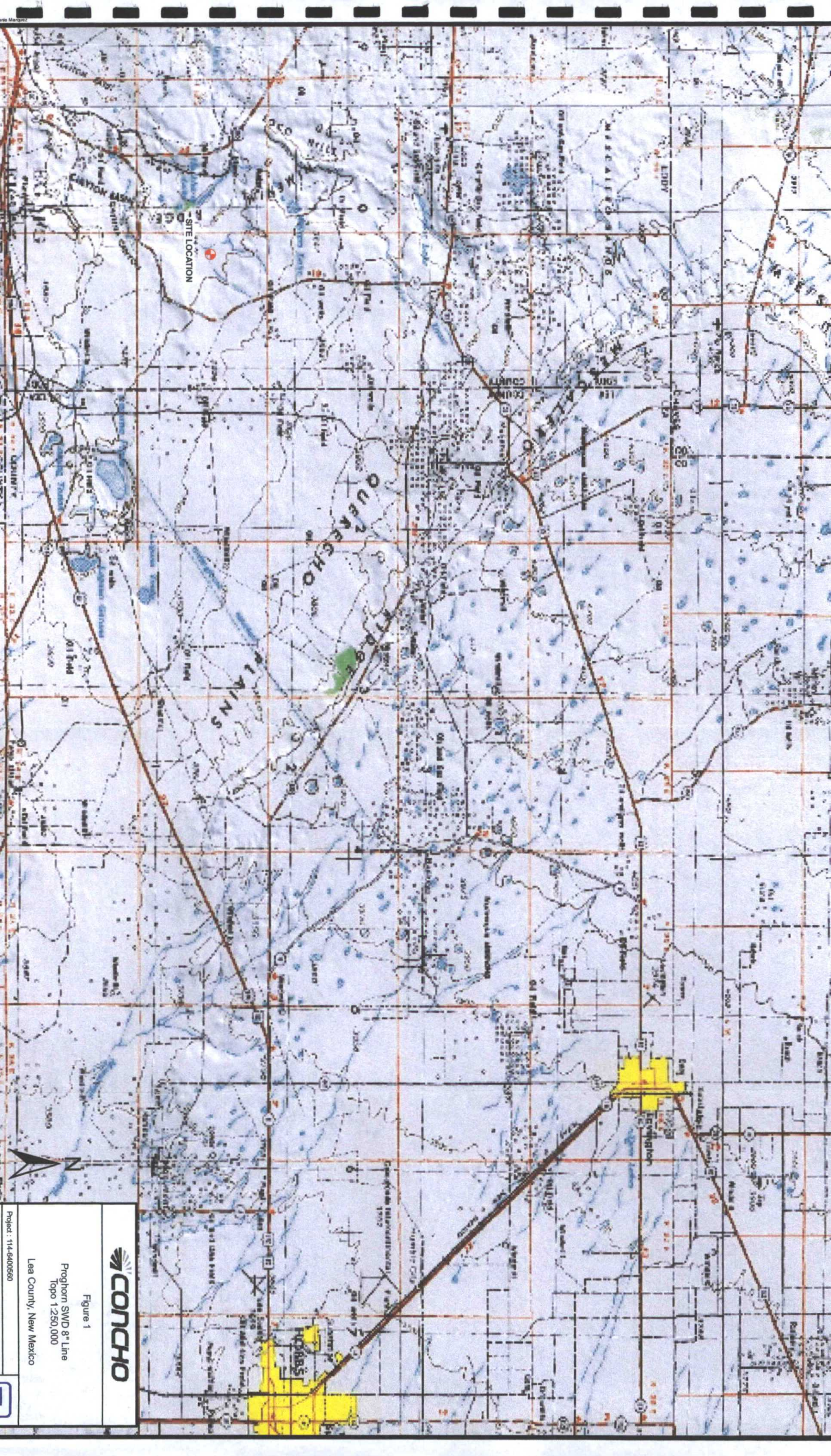
If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH



Ike Tavaréz, P.G.
Senior Project Manager

cc: Pat Ellis - COG
Paul Evans - BLM



CONCHO

Figure 1

Prohorn SWD 8" Line
Topo 1:250,000

Lea County, New Mexico

Project: 114-6400560



SITE LOCATION

OIL FIELD

FIELD

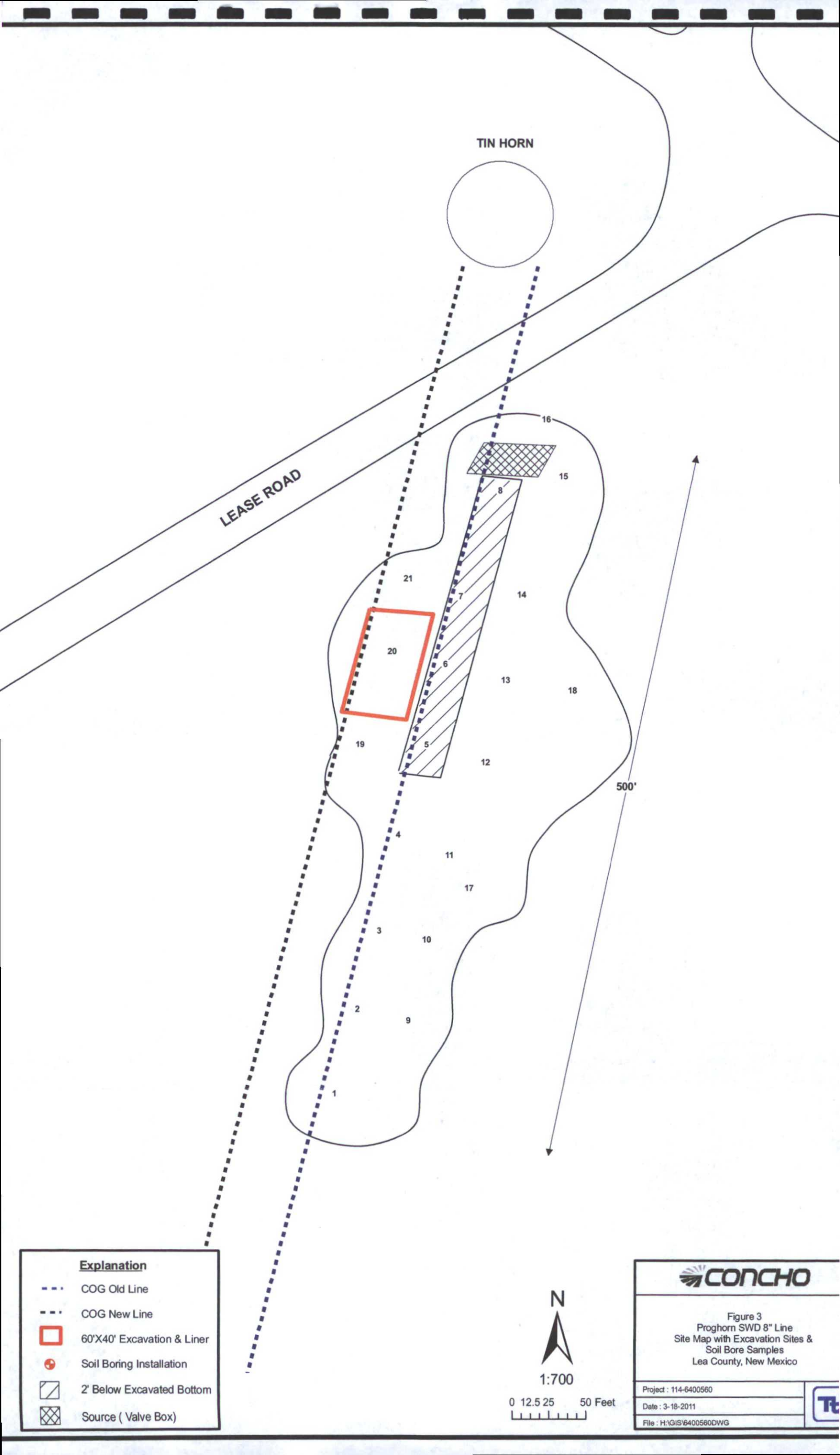


Figure 2

Proghorn SWD 8" Line
Topo 1:24,000

Lea County, New Mexico

Project: 114-6400560





LEASE ROAD

TIN HORN

500'

Explanation

- COG Old Line
- COG New Line
- 60'X40' Excavation & Liner
- Soil Boring Installation
- 2' Below Excavated Bottom
- Source (Valve Box)

CONCHO

Figure 3
Proghorn SWD 8" Line
Site Map with Excavation Sites &
Soil Bore Samples
Lea County, New Mexico

Project : 114-6400560

Date : 3-18-2011

File : H:\GIS\6400560DWG

1:700
0 12.5 25 50 Feet



Explanation

- A - A' Analytical Cross Section
- B - B' Analytical Cross Section
- 60'X40' Excavation & Liner
- Soil Boring Installation
- 2' Below Excavated Bottom
- Source (Valve Box)



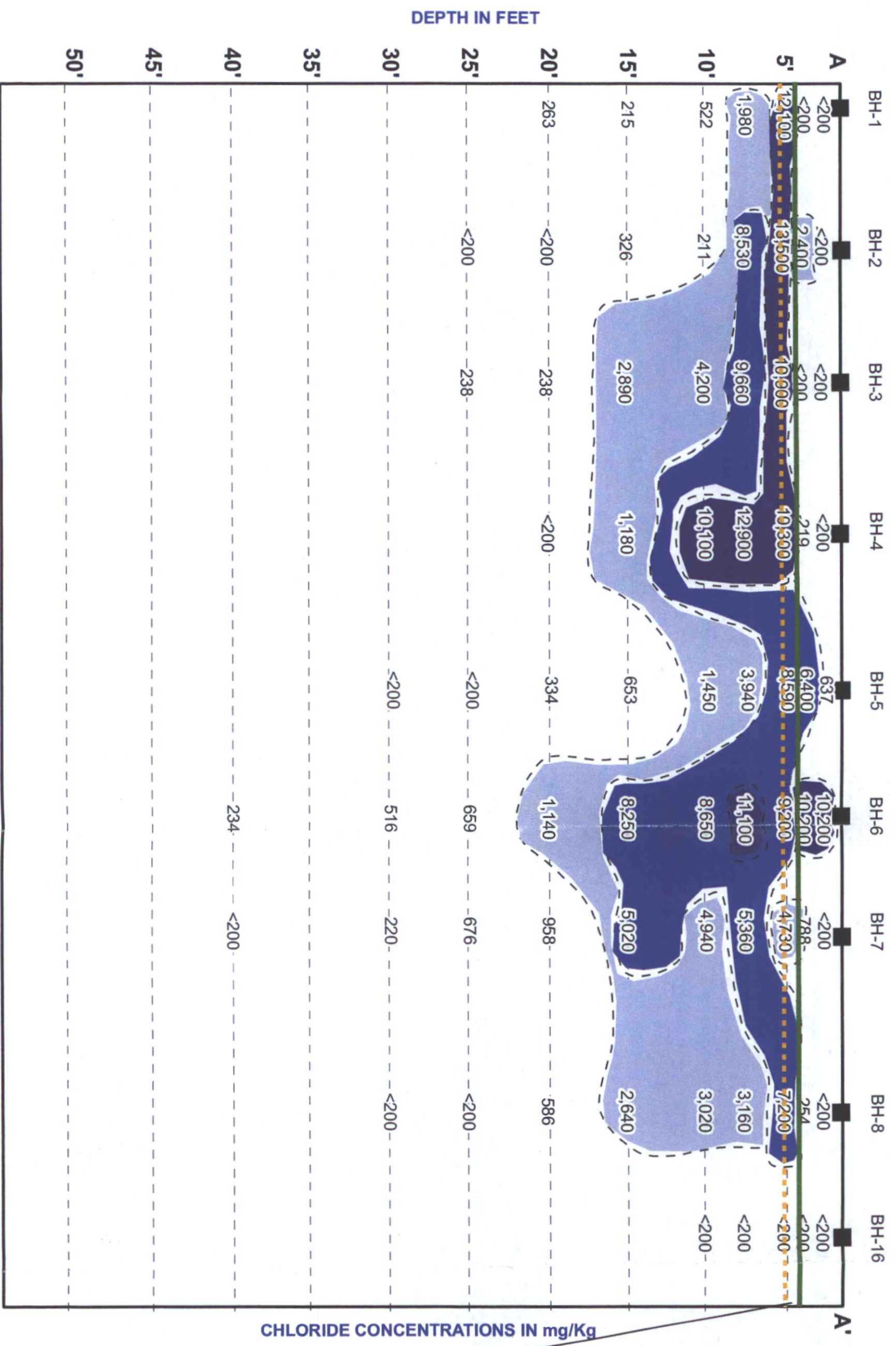
Figure 4
Proghorn SWD 8" Line
Cross Section Reference Map
Lea County, New Mexico

Project : 114-6400560

Date : 3-18-2011

File : H:\GIS\6400560

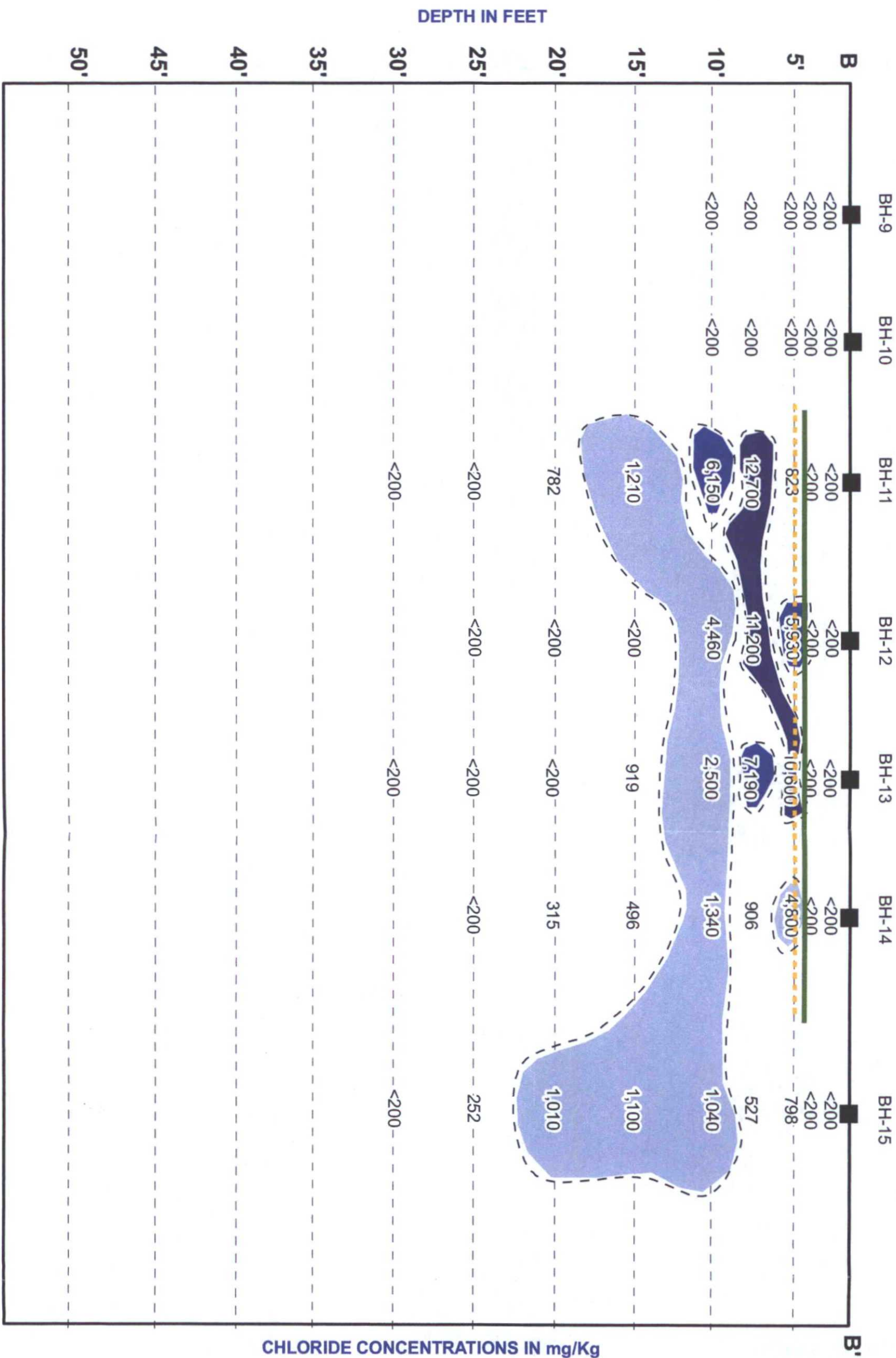




EXPLANATION

- Chlorides < 1,000
- Chlorides 1,000-5,000
- Chlorides 5,000-10,000
- Chlorides 10,000+
- Proposed Excavation Depths
- Proposed Liner

Liner & Excavation Depth 5'



CHLORIDE CONCENTRATIONS IN mg/Kg

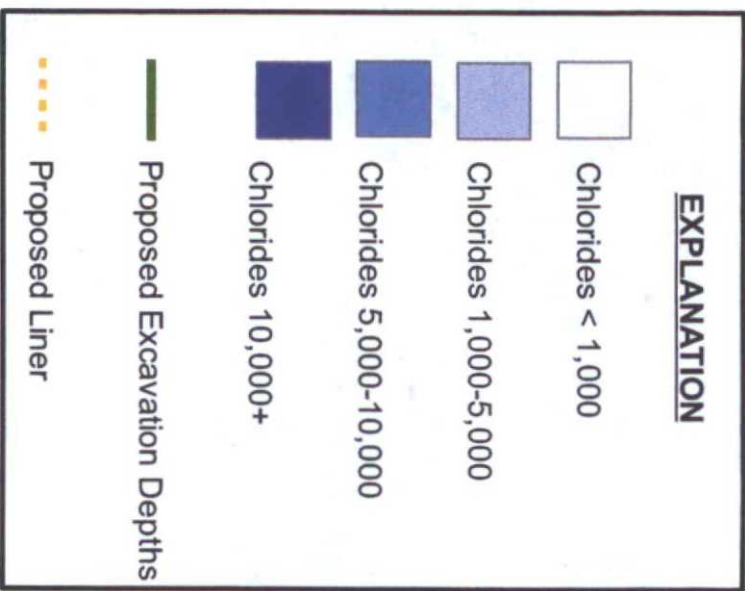


Figure 6
Pronghorn SWD 8" Line
B to B' Analytical Cross Section
Proposed Excavation Depths & Liner
Lea County, New Mexico

PROJECT: 114-6400560

DATED: 3-18-2014



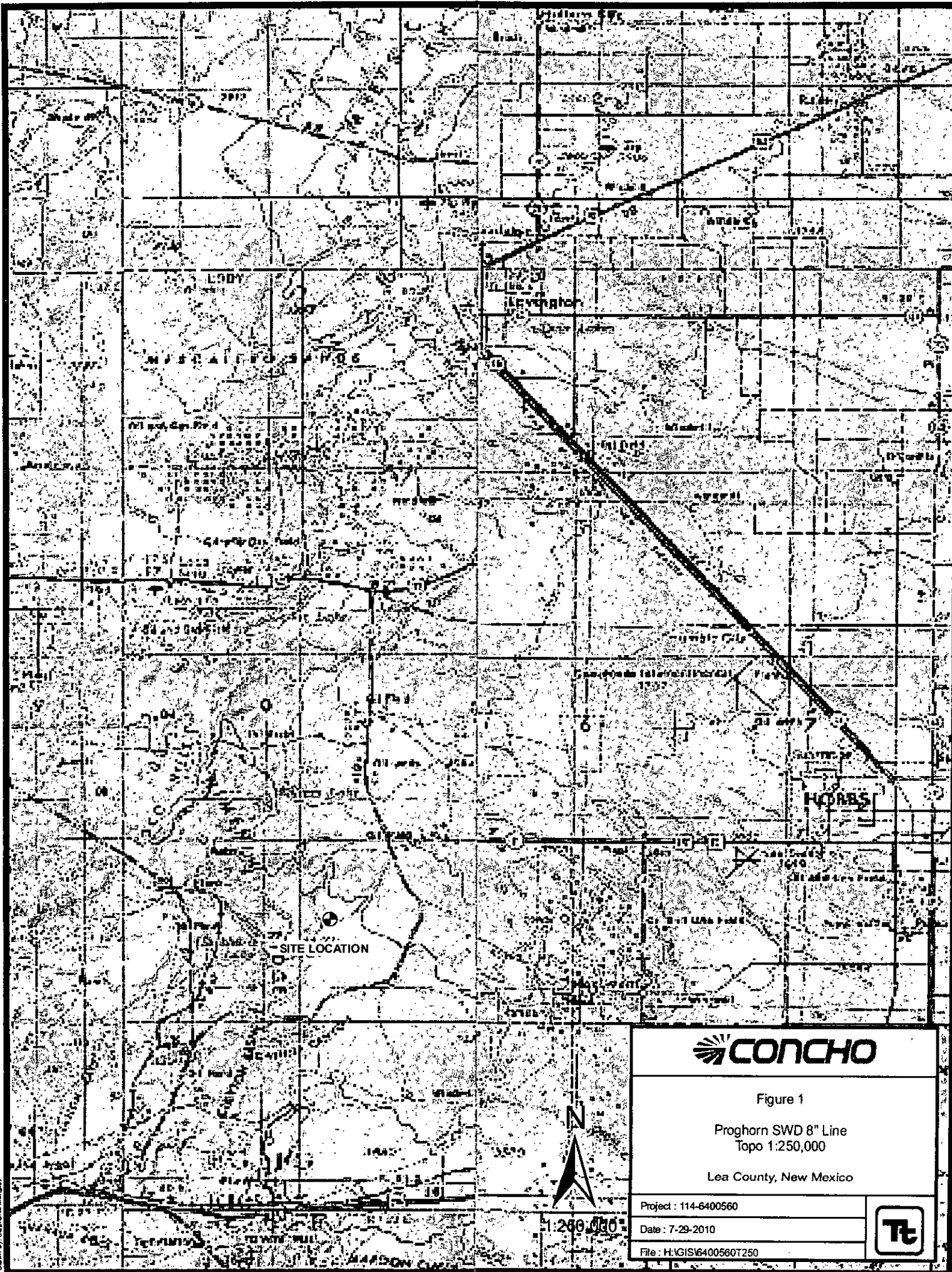


Figure 1

Prohorn SWD 8" Line
Topo 1:250,000

Lea County, New Mexico

Project : 114-6400560

Date : 7-29-2010

File : H:\GIS\6400560\7250



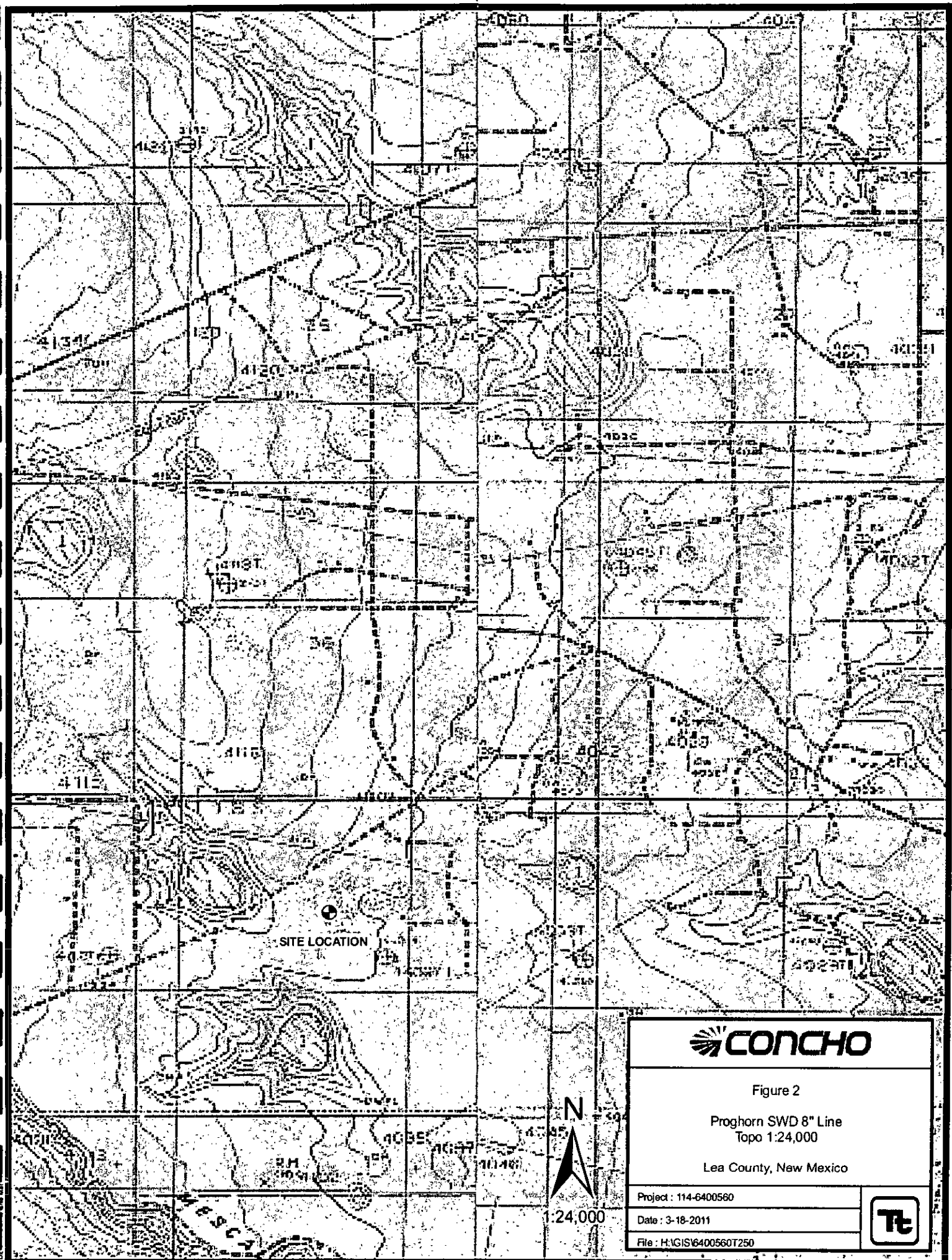


Figure 2

Proghorn SWD 8" Line
Topo 1:24,000

Lea County, New Mexico

Project : 114-6400560

Date : 3-18-2011

File : H:\GIS\6400560\T250



TIN HORN



Figure 3
Proghorn SWD 8" Line
Site Map with Excavation Sites &
Soil Bore Samples
Lea County, New Mexico

Project : 114-6400560

Date : 3-18-2011

File : H:\GIS\6400560DWG



1:700

0 12.5 25 50 Feet



Explanation

- COG Old Line
- COG New Line
- 60'X40' Excavation & Liner
- Soil Boring Installation
- 2' Below Excavated Bottom
- Source (Valve Box)



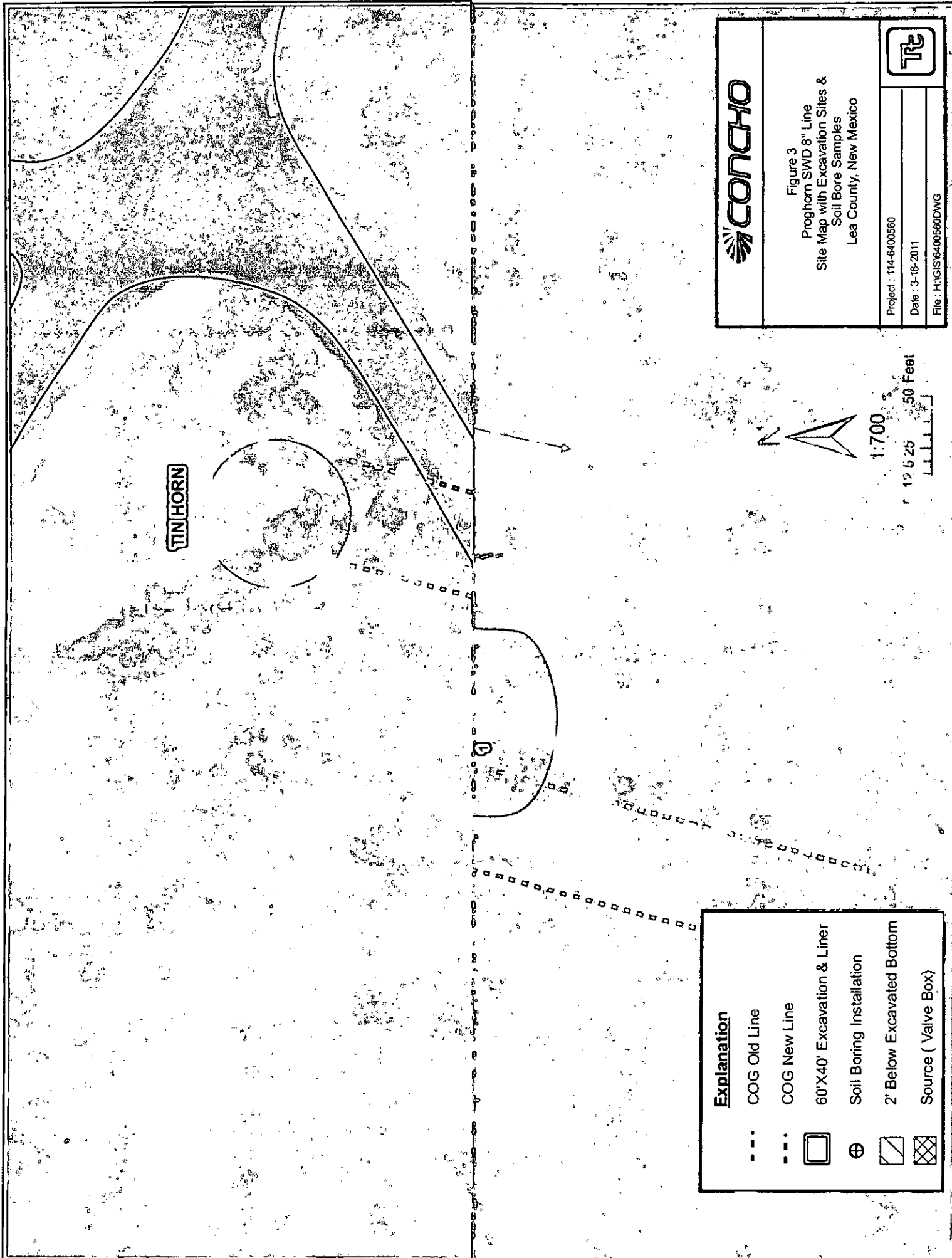


Figure 3
 Proghorn SWD 8" Line
 Site Map with Excavation Sites &
 Soil Bore Samples
 Lea County, New Mexico

Project : 114-6400560

Date : 3-18-2011

File : H:\GIS\6400560.DWG

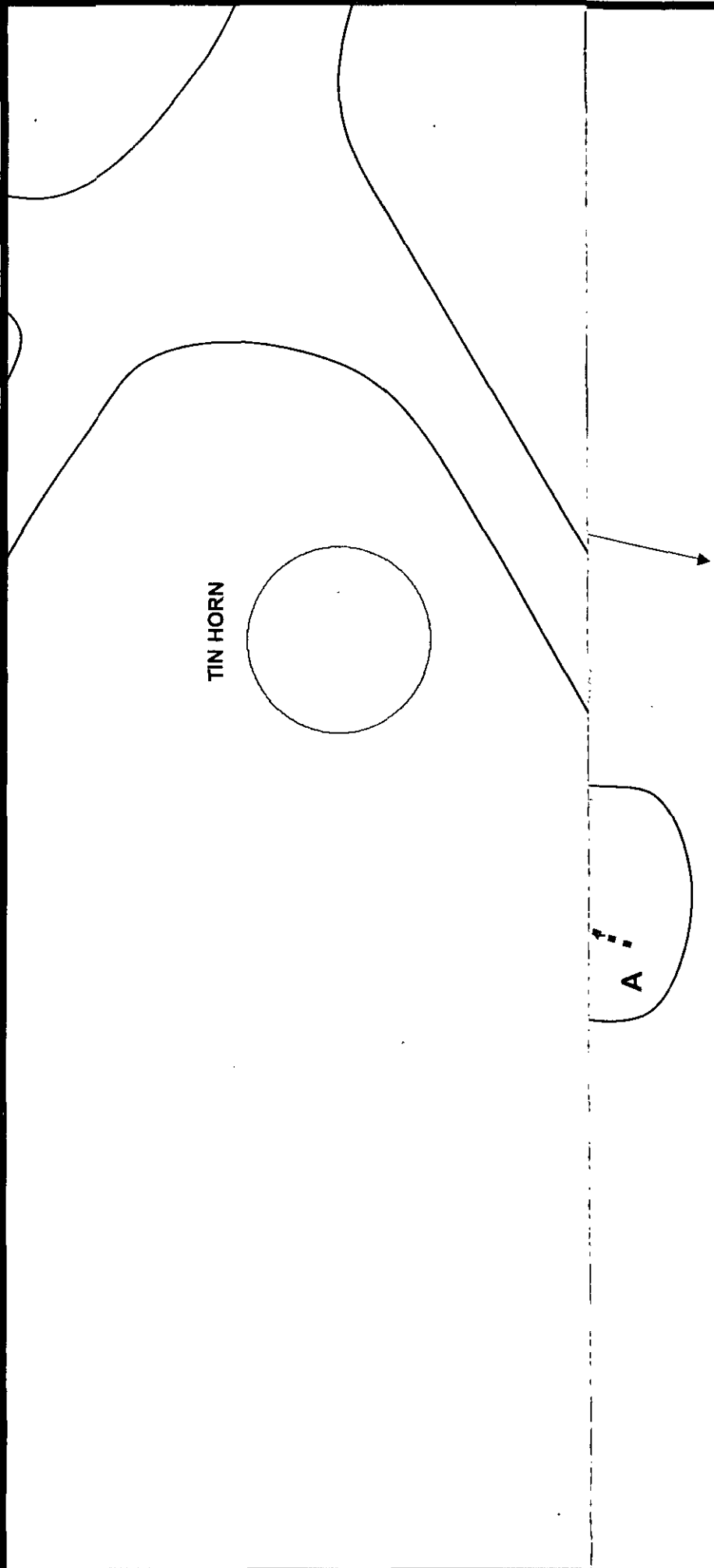


1:700

50 Feet

Explanation

- COG Old Line
- COG New Line
- 60'X40' Excavation & Liner
- Soil Boring Installation
- 2' Below Excavated Bottom
- Source (Valve Box)



TIN HORN

A

Explanation

- A - A' Analytical Cross Section
- B - B' Analytical Cross Section
- 60'X40' Excavation & Liner
- ⊕ Soil Boring Installation
- ▨ 2' Below Excavated Bottom
- ▩ Source (Valve Box)



1:700

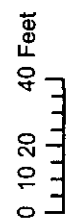
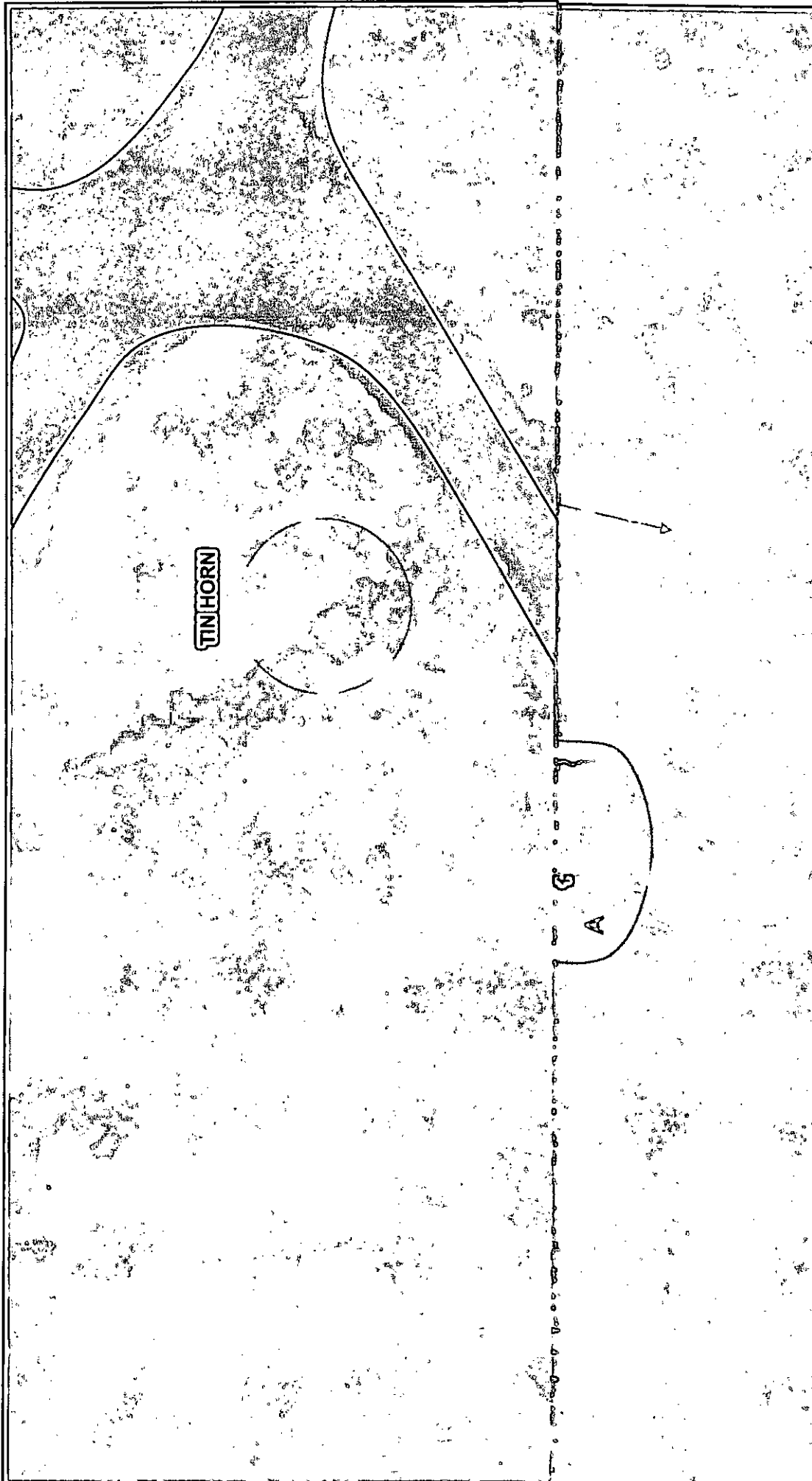


Figure 4
Proghorn SWD 8" Line
Cross Section Reference Map
Lea County, New Mexico

Project : 114-6400560
Date : 3-18-2011
File : H:\GIS\6400560





Explanation	
---	A - A' Analytical Cross Section
---	B - B' Analytical Cross Section
	60"X40' Excavation & Liner
	Soil Boring Installation
	2' Below Excavated Bottom
	Source (Valve Box)

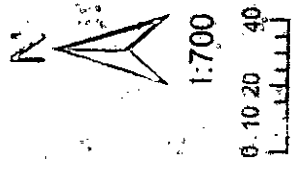




Figure 4
Proghorn SWD 8" Line
Cross Section Reference Map
Lea County, New Mexico

Project : 114-6400560
Date : 3-18-2011
File : H:\GIS\6400560



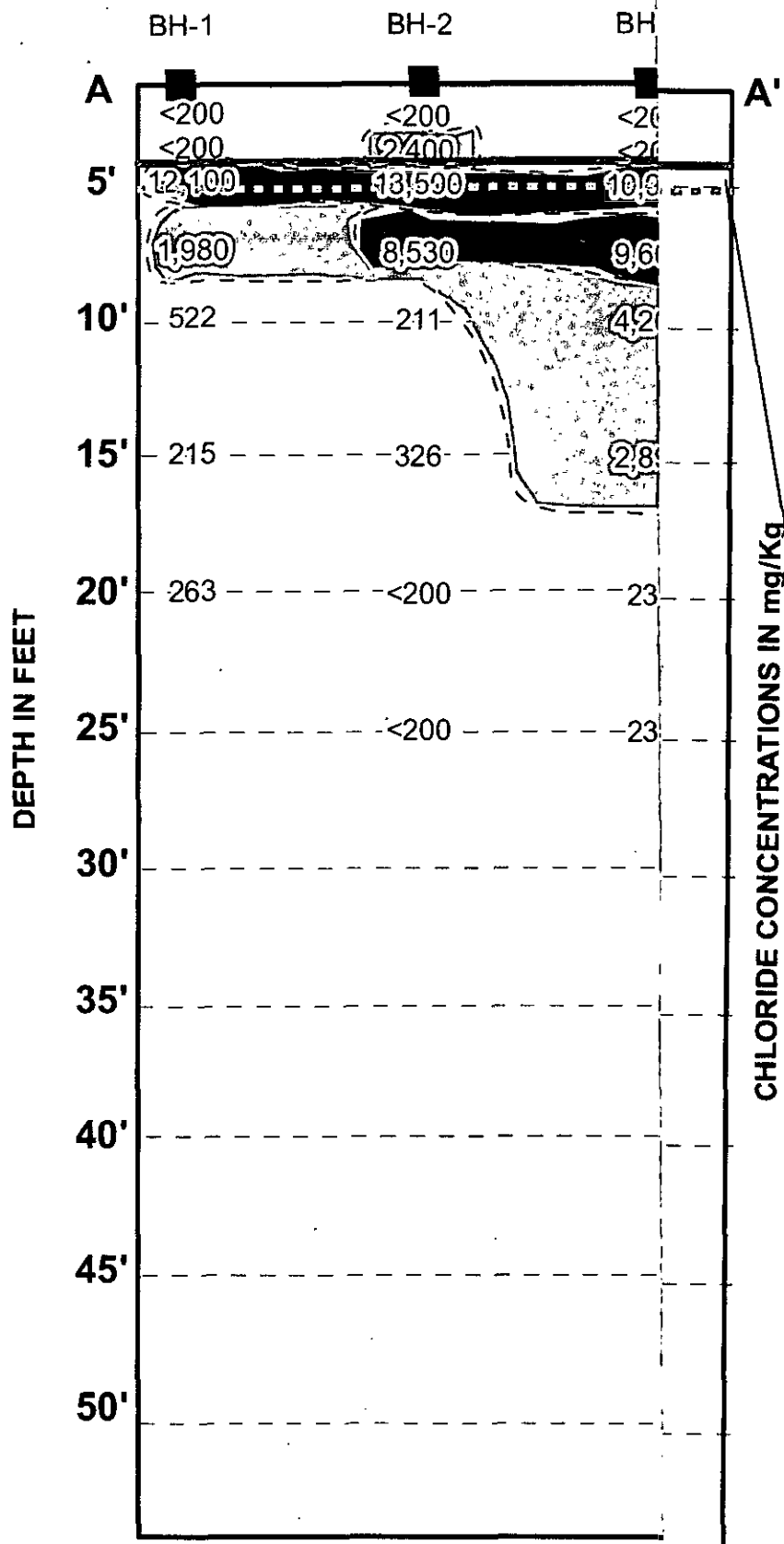


Figure 5
Pronghorn SWD 8" Line
A to A' Analytical Cross Section

Lea County, New Mexico

PROJECT :114-6400560

DATE : 3-18-2011

FILE : H:\GIS\114-6400560



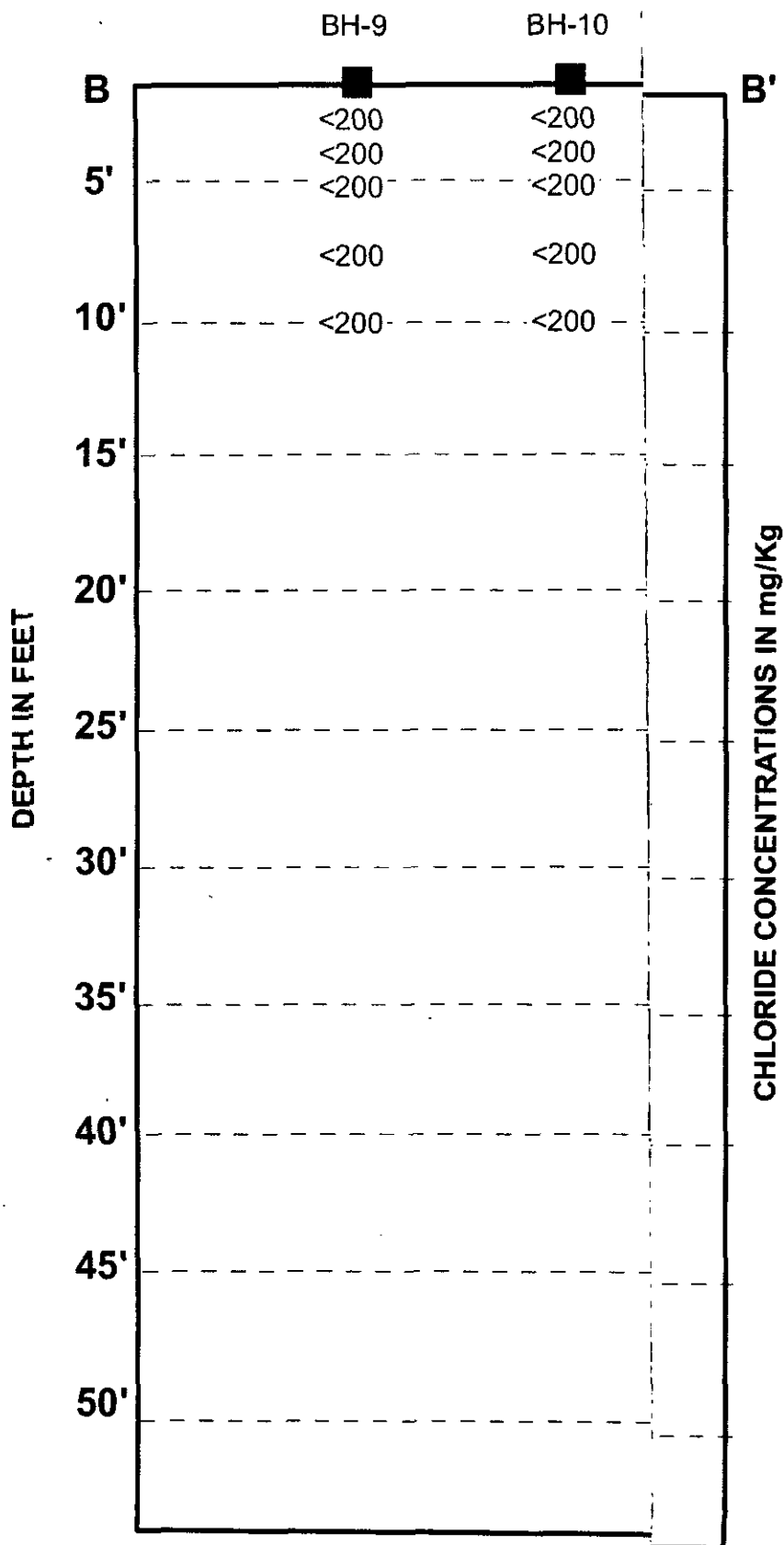


Figure 6
Pronghorn SWD 8" Line
B to B' Analytical Cross Section
Proposed Excavation Depths & Liner
Lea County, New Mexico

PROJECT :114-6400560

DATE : 3-18-2011

FILE : H:\GIS\114-6400560



File : H:\GIS\6400569DWG

Date : 7-29-2010

Project : 114-6400560

Lea County, New Mexico

Site Map & Bore Hole Locations

Pronghom SWD 8" Line

Figure 3

Explanation

Source (Valve Box)

2' Below Excavated Bottom

Bore Hole Installation

COG Water Line





File: H:\GIS\6400560DWG

Date: 7-29-2010

Project: 114-6400560

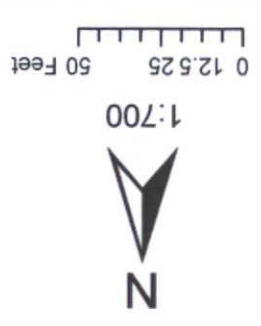
Lea County, New Mexico

Site Map with A-A' & B-B'

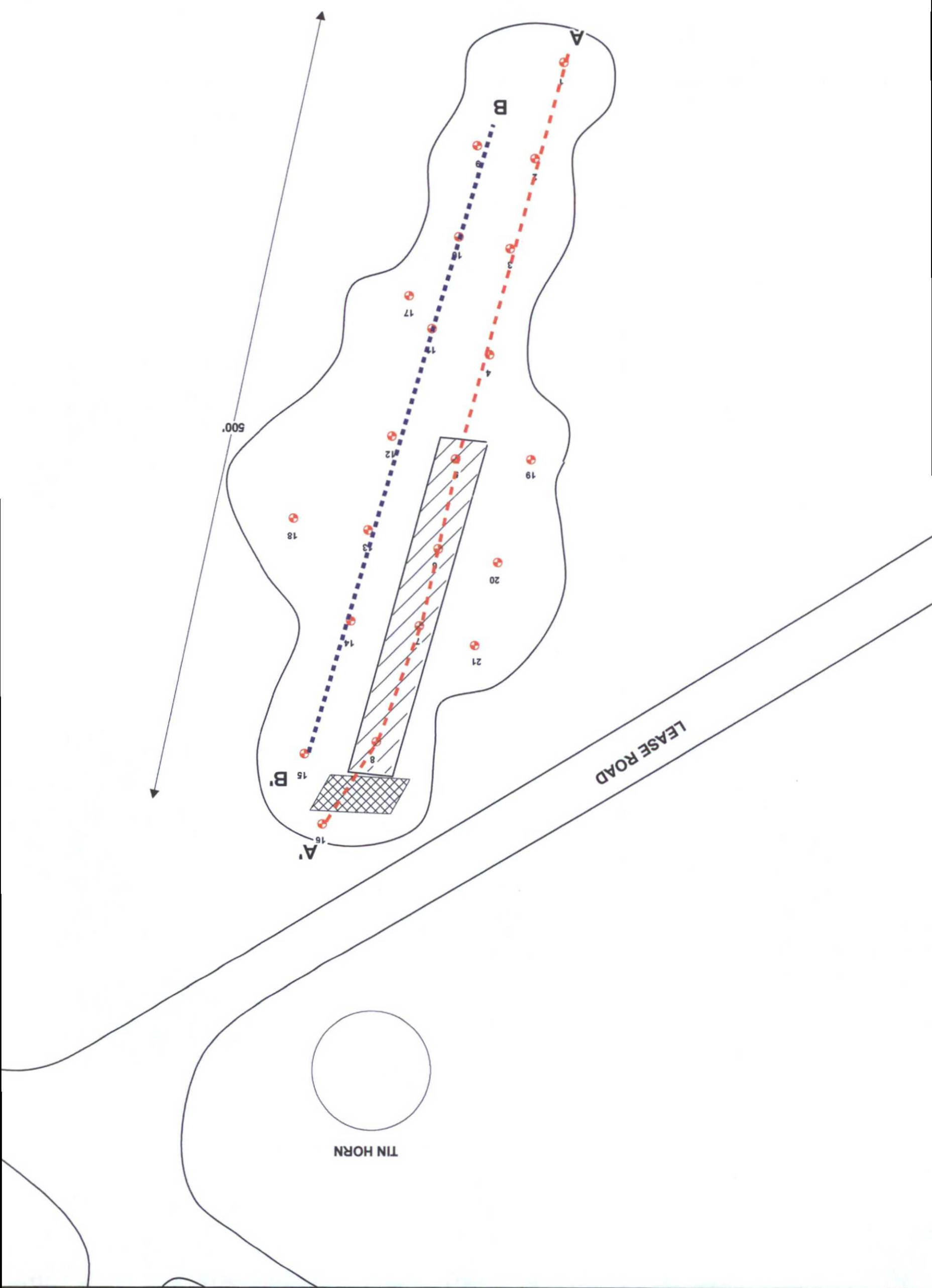
Pronghorn SWD 8" Line

Figure 4





Explanation	
	Source (Valve Box)
	2' Below Excavated Bottom
	Soil Boring Installation
	B-B' Analytical Cross Section
	A-A' Analytical Cross Section



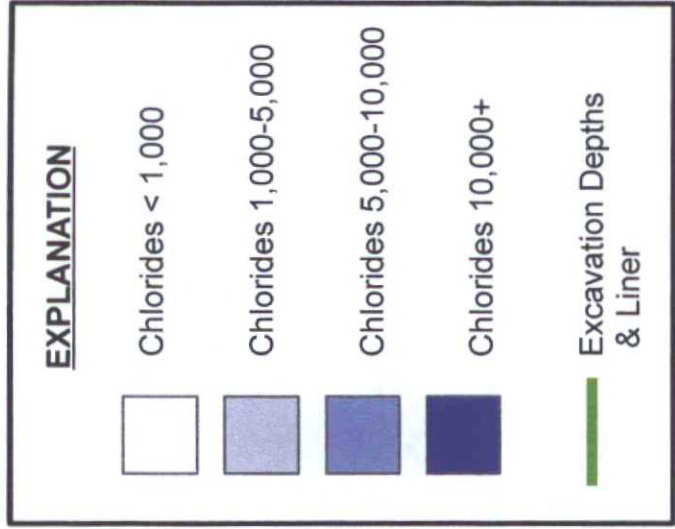
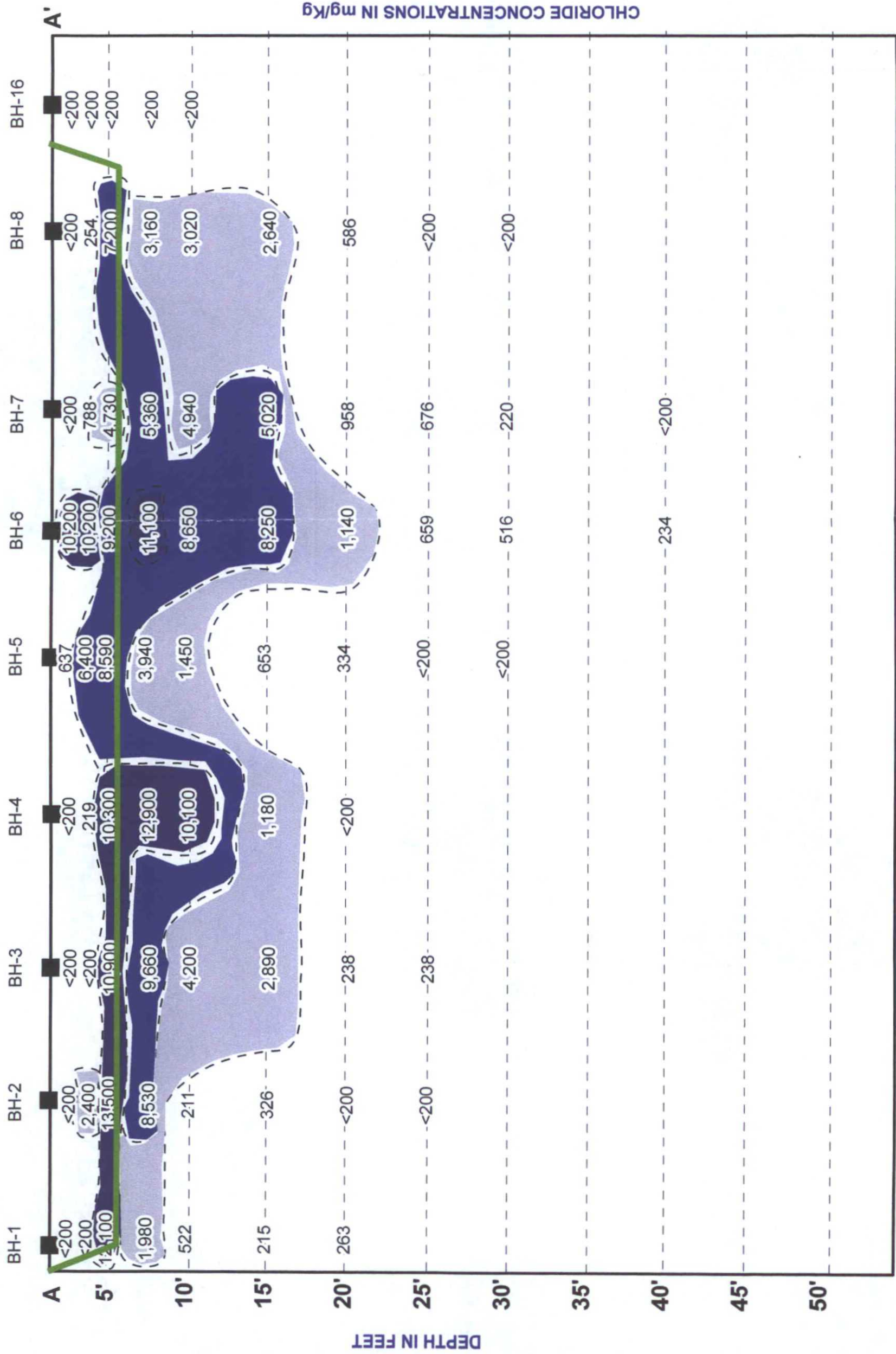


Figure 5
Pronghorn SWD 8" Line
A to A' Analytical Cross Section
Lea County, New Mexico

PROJECT :114-6400560

DATE : 10-27-2010



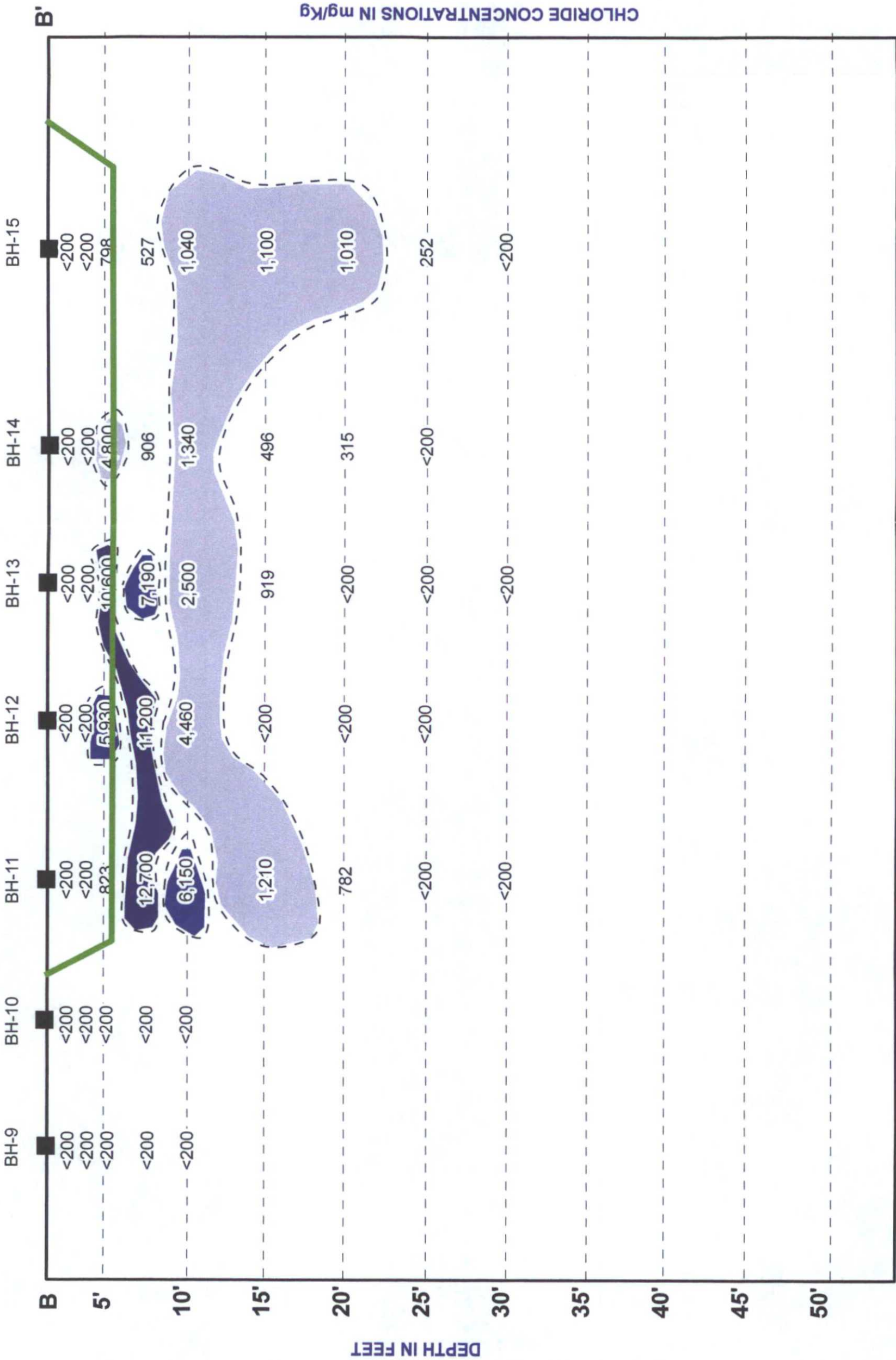
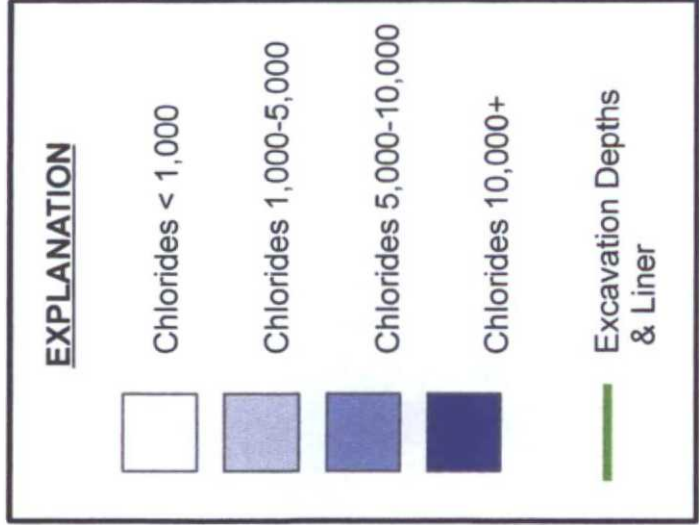


Figure 6
Pronghorn SWD 8" Line
B to B' Analytical Cross Section
Lea County, New Mexico

PROJECT :114-6400560

DATE : 10-27-2010





Figure 7
Pronghorn SWD 8" Line
Excavation Area & Liner Installation
Lea County, New Mexico

Project: 114-6400560
Date: 7-29-2010
File: H:\GIS\SWD\114-6400560.DWG

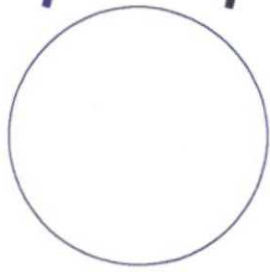


Explanation

- COG Old Line
- COG New Line
- Liner Installation
- Excavated Area
- Soil Boring Installation
- 2' Below Excavated Bottom
- Source (Valve Box)

5' DEEP

500'



TIN HORN

LEASE ROAD

Table 1
COG Operating LLC.
Pronghorn SWD 8" Line (0560)
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-1	7/21/2010	1'		X		<2.00	<50.0	<50.0	0.0396	<0.0200	<0.0200	<0.0200	<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	12,100
		7'		X		-	-	-	-	-	-	-	1,980
		10'		X		-	-	-	-	-	-	-	522
		15'		X		-	-	-	-	-	-	-	215
		20'		X		-	-	-	-	-	-	-	263
SB-2	7/21/2010	1'		X		<2.00	<50.0	<50.0	0.0236	<0.0200	<0.0200	<0.0200	<200
		3'		X		-	-	-	-	-	-	-	2,400
		5'		X		-	-	-	-	-	-	-	13,500
		7'		X		-	-	-	-	-	-	-	8,530
		10'		X		-	-	-	-	-	-	-	211
		15'		X		-	-	-	-	-	-	-	326
		20'		X		-	-	-	-	-	-	<200	
		25'		X		-	-	-	-	-	-	<200	
SB-3	7/22/2010	1'		X		<2.00	<50.0	<50.0	0.0277	<0.0200	<0.0200	<0.0200	<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	10,900
		7'		X		-	-	-	-	-	-	-	9,660
		10'		X		-	-	-	-	-	-	-	4,200
		15'		X		-	-	-	-	-	-	-	2,890
		20'		X		-	-	-	-	-	-	238	
		25'		X		-	-	-	-	-	-	238	

Table 1
COG Operating LLC.
Pronghorn SWD 8" Line (0560)
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-4	7/22/2010	1'		X		<2.00	<50.0	<50.0	0.0266	<0.0200	<0.0200	<0.0200	<200
		3'		X			-	-				-	219
		5'		X			-	-				-	10,300
		7'		X		-	-	-	-	-	-	-	12,900
		10'		X		-	-	-	-	-	-	-	10,100
		15'		X		-	-	-	-	-	-	-	1,180
		20'		X		-	-	-	-	-	-	-	<200
SB-5	7/22/2010	1'	2'	X		6.65	<50.0	6.65	0.0415	<0.0200	<0.0200	0.0923	637
		3'	2'	X		-	-	-	-	-	-	-	6,440
		5'	2'	X		-	-	-	-	-	-	-	8,590
		7'	2'	X		-	-	-	-	-	-	-	3,940
		10'	2'	X		-	-	-	-	-	-	-	1,450
		15'	2'	X		-	-	-	-	-	-	-	653
		20'	2'	X		-	-	-	-	-	-	-	334
		25'	2'	X		-	-	-	-	-	-	-	<200
		30'	2'	X		-	-	-	-	-	-	<200	
SB-6	7/22/2010	1'	2'	X		<2.00	<50.0	<50.0	0.0387	<0.0200	<0.0200	<0.0200	10,200
		3'	2'	X		-	-	-	-	-	-	-	10,200
		5'	2'	X		-	-	-	-	-	-	-	9,200
		7'	2'	X		-	-	-	-	-	-	-	11,100
		10'	2'	X		-	-	-	-	-	-	-	8,650
		15'	2'	X		-	-	-	-	-	-	-	8,250
		20'	2'	X		-	-	-	-	-	-	-	1,140
		25'	2'	X		-	-	-	-	-	-	-	659
		30'	2'	X		-	-	-	-	-	-	516	
		40'	2'	X		-	-	-	-	-	-	234	

Table 1

[illegible]

Table 1

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)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-13	7/23/2010	1'		X		<2.00	<50.0	<50.0					<200
		3'		X		-	-	-					<200
		5'		X				-					10,600
		7'		X		-	-	-					7,190
		10'		X		-	-	-					2,500
		15'		X		-	-	-					919
		20'		X		-	-	-					<200
		25'		X		-	-	-				<200	
		30'		X		-	-	-				<200	
SB-14	7/23/2010	1'		X		<2.00	<50.0	<50.0					344
		3'		X		-	-	-					539
		5'		X		-	-	-					4,800
		7'		X		-	-	-					906
		10'		X		-	-	-					1,340
		15'		X		-	-	-					496
		20'		X		-	-	-					315
		25'		X		-	-	-				<200	
SB-15	7/23/2010	1'		X		<2.00	<50.0	<50.0					<200
		3'		X		-	-	-					<200
		5'		X		-	-	-					798
		7'		X		-	-	-					527
		10'		X		-	-	-					1,040
		15'		X		-	-	-					1,100
		20'		X		-	-	-					1,010
		25'		X		-	-	-				252	
		30'		X		-	-	-				<200	

Table 1
COG Operating LLC.
Pronghorn SWD 8" Line (0560)
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-16	7/27/2010	1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	1,820
		7'		X		-	-	-	-	-	-	-	1,050
		10'		X		-	-	-	-	-	-	-	889
		15'		X		-	-	-	-	-	-	-	645
		20'		X		-	-	-	-	-	-	-	244
		25'		X		-	-	-	-	-	-	-	234
SB-17	7/27/2010	1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	225
		7'		X		-	-	-	-	-	-	-	<200
SB-18	7/27/2010	1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	203
		3'		X		-	-	-	-	-	-	-	279
		5'		X		-	-	-	-	-	-	-	7,710
		7'		X		-	-	-	-	-	-	-	7,840
		10'		X		-	-	-	-	-	-	-	5,750
		15'		X		-	-	-	-	-	-	-	889
		20'		X		-	-	-	-	-	-	-	440
		25'		X		-	-	-	-	-	-	-	301

Table 1
COG Operating LLC.
Pronghorn SWD 8" Line (0560)
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-19	7/27/2010	1'		X		<2.00	<50.0	<50.0					<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	<200
		7'		X		-	-	-	-	-	-	-	<200
		10'		X		-	-	-	-	-	-	-	<200
SB-20	7/27/2010	1'		X		<2.00	<50.0	<50.0					<200
		3'		X		-	-	-	-	-	-	-	204
		5'		X		-	-	-	-	-	-	-	2,390
		7'		X		-	-	-	-	-	-	-	8,720
		10'		X		-	-	-	-	-	-	-	417
		15'		X		-	-	-	-	-	-	-	394
SB-21	7/27/2010	1'		X		<2.00	<50.0	<50.0					<200
		3'		X		-	-	-	-	-	-	-	292
		5'		X		-	-	-	-	-	-	-	1,470
		7'		X		-	-	-	-	-	-	-	376
		10'		X		-	-	-	-	-	-	-	728
		15'		X		-	-	-	-	-	-	-	1,620
		20'		X		-	-	-	-	-	-	-	427
		25'		X		-	-	-	-	-	-	-	269

Proposed Liner Installation
 BEB Below Excavation Bottom
 (-) Not Analyzed
☐ Proposed excavated material

Water Well Data
Average Depth to Groundwater (ft)
COG - Pronghorn Line Lea County, New Mexico

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
			271		

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
			261		

19 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
		101			130

17 South 32 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 32 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
			117		

19 South 32 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
			250		

17 South 33 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
				155	

18 South 33 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
			177		

19 South 33 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

121 Temporary Well Drill by Tetra Tech

Summary Report

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

Report Date: August 5, 2010

Work Order: 10072810



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238863	SB-1 1'	soil	2010-07-21	00:00	2010-07-27
238864	SB-1 3'	soil	2010-07-21	00:00	2010-07-27
238865	SB-1 5'	soil	2010-07-21	00:00	2010-07-27
238866	SB-1 7'	soil	2010-07-21	00:00	2010-07-27
238867	SB-1 10'	soil	2010-07-21	00:00	2010-07-27
238868	SB-1 15'	soil	2010-07-21	00:00	2010-07-27
238869	SB-1 20'	soil	2010-07-21	00:00	2010-07-27
238870	SB-2 1'	soil	2010-07-21	00:00	2010-07-27
238871	SB-2 3'	soil	2010-07-21	00:00	2010-07-27
238872	SB-2 5'	soil	2010-07-21	00:00	2010-07-27
238873	SB-2 7'	soil	2010-07-21	00:00	2010-07-27
238874	SB-2 10'	soil	2010-07-21	00:00	2010-07-27
238875	SB-2 15'	soil	2010-07-21	00:00	2010-07-27
238876	SB-2 20'	soil	2010-07-21	00:00	2010-07-27
238877	SB-3 1'	soil	2010-07-22	00:00	2010-07-27
238878	SB-3 3'	soil	2010-07-22	00:00	2010-07-27
238879	SB-3 5'	soil	2010-07-22	00:00	2010-07-27
238880	SB-3 7'	soil	2010-07-22	00:00	2010-07-27
238881	SB-3 10'	soil	2010-07-22	00:00	2010-07-27
238882	SB-3 15'	soil	2010-07-22	00:00	2010-07-27
238883	SB-3 20'	soil	2010-07-22	00:00	2010-07-27
238884	SB-3 25'	soil	2010-07-22	00:00	2010-07-27
238885	SB-4 1'	soil	2010-07-22	00:00	2010-07-27
238886	SB-4 3'	soil	2010-07-22	00:00	2010-07-27
238887	SB-4 5'	soil	2010-07-22	00:00	2010-07-27
238888	SB-4 7'	soil	2010-07-22	00:00	2010-07-27
238889	SB-4 10'	soil	2010-07-22	00:00	2010-07-27
238890	SB-4 15'	soil	2010-07-22	00:00	2010-07-27
238891	SB-4 20'	soil	2010-07-22	00:00	2010-07-27
238892	SB-5 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238893	SB-5 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238894	SB-5 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238895	SB-5 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238896	SB-5 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238897	SB-5 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238898	SB-5 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238899	SB-5 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238900	SB-5 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238901	SB-6 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238902	SB-6 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238903	SB-6 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238904	SB-6 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238905	SB-6 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238906	SB-6 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238907	SB-6 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238908	SB-6 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238909	SB-6 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238910	SB-6 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238911	SB-7 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238912	SB-7 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238913	SB-7 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238914	SB-7 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238915	SB-7 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238916	SB-7 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238917	SB-7 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238918	SB-7 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238919	SB-7 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238920	SB-7 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238921	SB-8 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238922	SB-8 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238923	SB-8 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238924	SB-8 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238925	SB-8 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238926	SB-8 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238927	SB-8 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238928	SB-8 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238929	SB-8 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238930	SB-9 1'	soil	2010-07-23	00:00	2010-07-27
238931	SB-9 3'	soil	2010-07-23	00:00	2010-07-27
238932	SB-9 5'	soil	2010-07-23	00:00	2010-07-27
238933	SB-9 7'	soil	2010-07-23	00:00	2010-07-27
238934	SB-9 10'	soil	2010-07-23	00:00	2010-07-27
238935	SB-10 1'	soil	2010-07-23	00:00	2010-07-27
238936	SB-10 3'	soil	2010-07-23	00:00	2010-07-27
238937	SB-10 5'	soil	2010-07-23	00:00	2010-07-27
238938	SB-10 7'	soil	2010-07-23	00:00	2010-07-27
238939	SB-10 10'	soil	2010-07-23	00:00	2010-07-27
238940	SB-11 1'	soil	2010-07-23	00:00	2010-07-27
238941	SB-11 3'	soil	2010-07-23	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238942	SB-11 5'	soil	2010-07-23	00:00	2010-07-27
238943	SB-11 7'	soil	2010-07-23	00:00	2010-07-27
238944	SB-11 10'	soil	2010-07-23	00:00	2010-07-27
238945	SB-11 15'	soil	2010-07-23	00:00	2010-07-27
238946	SB-11 20'	soil	2010-07-23	00:00	2010-07-27
238947	SB-11 25'	soil	2010-07-23	00:00	2010-07-27
238948	SB-11 30'	soil	2010-07-23	00:00	2010-07-27
238949	SB-12 1'	soil	2010-07-23	00:00	2010-07-27
238950	SB-12 3'	soil	2010-07-23	00:00	2010-07-27
238951	SB-12 5'	soil	2010-07-23	00:00	2010-07-27
238952	SB-12 7'	soil	2010-07-23	00:00	2010-07-27
238953	SB-12 10'	soil	2010-07-23	00:00	2010-07-27
238954	SB-12 15'	soil	2010-07-23	00:00	2010-07-27
238955	SB-12 20'	soil	2010-07-23	00:00	2010-07-27
238956	SB-12 25'	soil	2010-07-23	00:00	2010-07-27
238957	SB-13 1'	soil	2010-07-23	00:00	2010-07-27
238958	SB-13 3'	soil	2010-07-23	00:00	2010-07-27
238959	SB-13 5'	soil	2010-07-23	00:00	2010-07-27
238960	SB-13 7'	soil	2010-07-23	00:00	2010-07-27
238961	SB-13 10'	soil	2010-07-23	00:00	2010-07-27
238962	SB-13 15'	soil	2010-07-23	00:00	2010-07-27
238963	SB-13 20'	soil	2010-07-23	00:00	2010-07-27
238964	SB-13 25'	soil	2010-07-23	00:00	2010-07-27
238965	SB-13 30'	soil	2010-07-23	00:00	2010-07-27
238966	SB-14 1'	soil	2010-07-23	00:00	2010-07-27
238967	SB-14 3'	soil	2010-07-23	00:00	2010-07-27
238968	SB-14 5'	soil	2010-07-23	00:00	2010-07-27
238969	SB-14 7'	soil	2010-07-23	00:00	2010-07-27
238970	SB-14 10'	soil	2010-07-23	00:00	2010-07-27
238971	SB-14 15'	soil	2010-07-23	00:00	2010-07-27
238972	SB-14 20'	soil	2010-07-23	00:00	2010-07-27
238973	SB-14 25'	soil	2010-07-23	00:00	2010-07-27
238974	SB-15 1'	soil	2010-07-23	00:00	2010-07-27
238975	SB-15 3'	soil	2010-07-23	00:00	2010-07-27
238976	SB-15 5'	soil	2010-07-23	00:00	2010-07-27
238977	SB-15 7'	soil	2010-07-23	00:00	2010-07-27
238978	SB-15 10'	soil	2010-07-23	00:00	2010-07-27
238979	SB-15 15'	soil	2010-07-23	00:00	2010-07-27
238980	SB-15 20'	soil	2010-07-23	00:00	2010-07-27
238981	SB-15 25'	soil	2010-07-23	00:00	2010-07-27
238982	SB-15 30'	soil	2010-07-23	00:00	2010-07-27
238983	SB-2 25'	soil	2010-07-21	00:00	2010-07-27

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)
238863 - SB-1 1'	0.0396	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238870 - SB-2 1'	0.0236	<0.0200	<0.0200	<0.0200	<50.0	<2.00

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Sample - Field Code	BTX				TPH DRO - NEW DRO	TPH GRO GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)		
238877 - SB-3 1'	0.0277	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238885 - SB-4 1'	0.0266	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238892 - SB-5 1' (2' BEB)	0.0415	<0.0200	<0.0200	0.0923	<50.0	6.65
238901 - SB-6 1' (2' BEB)	0.0387	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238911 - SB-7 1' (2' BEB)	0.0408	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238921 - SB-8 1' (2' BEB)	0.0265	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238930 - SB-9 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238935 - SB-10 1'	0.0407	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238940 - SB-11 1'					<50.0	<2.00
238949 - SB-12 1'					<50.0	<2.00
238957 - SB-13 1'					<50.0	<2.00
238966 - SB-14 1'					<50.0	<2.00
238974 - SB-15 1'					<50.0	<2.00

Sample: 238863 - SB-1 1'

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

Sample: 238864 - SB-1 3'

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

Sample: 238865 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		12100	mg/Kg	4.00

Sample: 238866 - SB-1 7'

Param	Flag	Result	Units	RL
Chloride		1980	mg/Kg	4.00

Sample: 238867 - SB-1 10'

Param	Flag	Result	Units	RL
Chloride		522	mg/Kg	4.00

Sample: 238868 - SB-1 15'

Param	Flag	Result	Units	RL
Chloride		215	mg/Kg	4.00

Sample: 238869 - SB-1 20'

Param	Flag	Result	Units	RL
Chloride		263	mg/Kg	4.00

Sample: 238870 - SB-2 1'

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

Sample: 238871 - SB-2 3'

Param	Flag	Result	Units	RL
Chloride		2400	mg/Kg	4.00

Sample: 238872 - SB-2 5'

Param	Flag	Result	Units	RL
Chloride		13500	mg/Kg	4.00

Sample: 238873 - SB-2 7'

Param	Flag	Result	Units	RL
Chloride		8530	mg/Kg	4.00

Sample: 238874 - SB-2 10'

Param	Flag	Result	Units	RL
Chloride		211	mg/Kg	4.00

Sample: 238875 - SB-2 15'

Param	Flag	Result	Units	RL
Chloride		326	mg/Kg	4.00

Sample: 238876 - SB-2 20'

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

Sample: 238877 - SB-3 1'

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

Sample: 238878 - SB-3 3'

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

Sample: 238879 - SB-3 5'

Param	Flag	Result	Units	RL
Chloride		10900	mg/Kg	4.00

Sample: 238880 - SB-3 7'

Param	Flag	Result	Units	RL
Chloride		9660	mg/Kg	4.00

Sample: 238881 - SB-3 10'

Param	Flag	Result	Units	RL
Chloride		4200	mg/Kg	4.00

Sample: 238882 - SB-3 15'

Param	Flag	Result	Units	RL
Chloride		2890	mg/Kg	4.00

Sample: 238883 - SB-3 20'

Param	Flag	Result	Units	RL
Chloride		238	mg/Kg	4.00

Sample: 238884 - SB-3 25'

Param	Flag	Result	Units	RL
Chloride		238	mg/Kg	4.00

Sample: 238885 - SB-4 1'

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

Sample: 238886 - SB-4 3'

Param	Flag	Result	Units	RL
Chloride		219	mg/Kg	4.00

Sample: 238887 - SB-4 5'

Param	Flag	Result	Units	RL
Chloride		10300	mg/Kg	4.00

Sample: 238888 - SB-4 7'

Param	Flag	Result	Units	RL
Chloride		12900	mg/Kg	4.00

Sample: 238889 - SB-4 10'

Param	Flag	Result	Units	RL
Chloride		10100	mg/Kg	4.00

Sample: 238890 - SB-4 15'

Param	Flag	Result	Units	RL
Chloride		1180	mg/Kg	4.00

Sample: 238891 - SB-4 20'

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

Sample: 238892 - SB-5 1' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		637	mg/Kg	4.00

Sample: 238893 - SB-5 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		6440	mg/Kg	4.00

Sample: 238894 - SB-5 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		8590	mg/Kg	4.00

Sample: 238895 - SB-5 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		3940	mg/Kg	4.00

Sample: 238896 - SB-5 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		1450	mg/Kg	4.00

Sample: 238897 - SB-5 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		653	mg/Kg	4.00

Sample: 238898 - SB-5 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		334	mg/Kg	4.00

Sample: 238899 - SB-5 25' (2' BEB)

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

Sample: 238900 - SB-5 30' (2' BEB)

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

Sample: 238901 - SB-6 1' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		10200	mg/Kg	4.00

Sample: 238902 - SB-6 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		10200	mg/Kg	4.00

Sample: 238903 - SB-6 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		9200	mg/Kg	4.00

Sample: 238904 - SB-6 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		11100	mg/Kg	4.00

Sample: 238905 - SB-6 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		8650	mg/Kg	4.00

Sample: 238906 - SB-6 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		8250	mg/Kg	4.00

Sample: 238907 - SB-6 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		1140	mg/Kg	4.00

Sample: 238908 - SB-6 25' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		659	mg/Kg	4.00

Sample: 238909 - SB-6 30' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		516	mg/Kg	4.00

Sample: 238910 - SB-6 40' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00

Sample: 238911 - SB-7 1' (2' BEB)

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

Sample: 238912 - SB-7 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		788	mg/Kg	4.00

Sample: 238913 - SB-7 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		4730	mg/Kg	4.00

Sample: 238914 - SB-7 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		5360	mg/Kg	4.00

Sample: 238915 - SB-7 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		4940	mg/Kg	4.00

Sample: 238916 - SB-7 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		5020	mg/Kg	4.00

Sample: 238917 - SB-7 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		958	mg/Kg	4.00

Sample: 238918 - SB-7 25' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		676	mg/Kg	4.00

Sample: 238919 - SB-7 30' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		220	mg/Kg	4.00

Sample: 238920 - SB-7 40' (2' BEB)

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

Sample: 238921 - SB-8 1' (2' BEB)

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

Sample: 238922 - SB-8 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		254	mg/Kg	4.00

Sample: 238923 - SB-8 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		7200	mg/Kg	4.00

Sample: 238924 - SB-8 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		3160	mg/Kg	4.00

Sample: 238925 - SB-8 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		3020	mg/Kg	4.00

Sample: 238926 - SB-8 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		2640	mg/Kg	4.00

Sample: 238927 - SB-8 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		586	mg/Kg	4.00

Sample: 238928 - SB-8 25' (2' BEB)

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

Sample: 238929 - SB-8 30' (2' BEB)

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

Sample: 238930 - SB-9 1'

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

Sample: 238931 - SB-9 3'

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

Sample: 238932 - SB-9 5'

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

Sample: 238933 - SB-9 7'

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

Sample: 238934 - SB-9 10'

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

Sample: 238935 - SB-10 1'

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

Sample: 238936 - SB-10 3'

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

Sample: 238937 - SB-10 5'

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

Sample: 238938 - SB-10 7'

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

Sample: 238939 - SB-10 10'

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

Sample: 238940 - SB-11 1'

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

Sample: 238941 - SB-11 3'

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

Sample: 238942 - SB-11 5'

Param	Flag	Result	Units	RL
Chloride		823	mg/Kg	4.00

Sample: 238943 - SB-11 7'

Param	Flag	Result	Units	RL
Chloride		12700	mg/Kg	4.00

Sample: 238944 - SB-11 10'

Param	Flag	Result	Units	RL
Chloride		6150	mg/Kg	4.00

Sample: 238945 - SB-11 15'

Param	Flag	Result	Units	RL
Chloride		1210	mg/Kg	4.00

Sample: 238946 - SB-11 20'

Param	Flag	Result	Units	RL
Chloride		782	mg/Kg	4.00

Sample: 238947 - SB-11 25'

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

Sample: 238948 - SB-11 30'

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

Sample: 238949 - SB-12 1'

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

Sample: 238950 - SB-12 3'

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

Sample: 238951 - SB-12 5'

Param	Flag	Result	Units	RL
Chloride		5930	mg/Kg	4.00

Sample: 238952 - SB-12 7'

Param	Flag	Result	Units	RL
Chloride		11200	mg/Kg	4.00

Sample: 238953 - SB-12 10'

Param	Flag	Result	Units	RL
Chloride		4460	mg/Kg	4.00

Sample: 238954 - SB-12 15'

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

Sample: 238955 - SB-12 20'

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

Sample: 238956 - SB-12 25'

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

Sample: 238957 - SB-13 1'

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

Sample: 238958 - SB-13 3'

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

Sample: 238959 - SB-13 5'

Param	Flag	Result	Units	RL
Chloride		10600	mg/Kg	4.00

Sample: 238960 - SB-13 7'

Param	Flag	Result	Units	RL
Chloride		7190	mg/Kg	4.00

Sample: 238961 - SB-13 10'

Param	Flag	Result	Units	RL
Chloride		2500	mg/Kg	4.00

Sample: 238962 - SB-13 15'

Param	Flag	Result	Units	RL
Chloride		919	mg/Kg	4.00

Sample: 238963 - SB-13 20'

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

Sample: 238964 - SB-13 25'

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

Sample: 238965 - SB-13 30'

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

Sample: 238966 - SB-14 1'

Param	Flag	Result	Units	RL
Chloride		344	mg/Kg	4.00

Sample: 238967 - SB-14 3'

Param	Flag	Result	Units	RL
Chloride		539	mg/Kg	4.00

Sample: 238968 - SB-14 5'

Param	Flag	Result	Units	RL
Chloride		4800	mg/Kg	4.00

Sample: 238969 - SB-14 7'

Param	Flag	Result	Units	RL
Chloride		906	mg/Kg	4.00

Sample: 238970 - SB-14 10'

Param	Flag	Result	Units	RL
Chloride		1340	mg/Kg	4.00

Sample: 238971 - SB-14 15'

Param	Flag	Result	Units	RL
Chloride		496	mg/Kg	4.00

Sample: 238972 - SB-14 20'

Param	Flag	Result	Units	RL
Chloride		315	mg/Kg	4.00

Sample: 238973 - SB-14 25'

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

Sample: 238974 - SB-15 1'

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

Sample: 238975 - SB-15 3'

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

Sample: 238976 - SB-15 5'

Param	Flag	Result	Units	RL
Chloride		798	mg/Kg	4.00

Sample: 238977 - SB-15 7'

Param	Flag	Result	Units	RL
Chloride		527	mg/Kg	4.00

Sample: 238978 - SB-15 10'

Param	Flag	Result	Units	RL
Chloride		1040	mg/Kg	4.00

Sample: 238979 - SB-15 15'

Param	Flag	Result	Units	RL
Chloride		1100	mg/Kg	4.00

Sample: 238980 - SB-15 20'

Param	Flag	Result	Units	RL
Chloride		1010	mg/Kg	4.00

Sample: 238981 - SB-15 25'

Param	Flag	Result	Units	RL
Chloride		252	mg/Kg	4.00

Sample: 238982 - SB-15 30'

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

Sample: 238983 - SB-2 25'

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



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Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 5, 2010

Work Order: 10072810



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238863	SB-1 1'	soil	2010-07-21	00:00	2010-07-27
238864	SB-1 3'	soil	2010-07-21	00:00	2010-07-27
238865	SB-1 5'	soil	2010-07-21	00:00	2010-07-27
238866	SB-1 7'	soil	2010-07-21	00:00	2010-07-27
238867	SB-1 10'	soil	2010-07-21	00:00	2010-07-27
238868	SB-1 15'	soil	2010-07-21	00:00	2010-07-27
238869	SB-1 20'	soil	2010-07-21	00:00	2010-07-27
238870	SB-2 1'	soil	2010-07-21	00:00	2010-07-27
238871	SB-2 3'	soil	2010-07-21	00:00	2010-07-27
238872	SB-2 5'	soil	2010-07-21	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238873	SB-2 7'	soil	2010-07-21	00:00	2010-07-27
238874	SB-2 10'	soil	2010-07-21	00:00	2010-07-27
238875	SB-2 15'	soil	2010-07-21	00:00	2010-07-27
238876	SB-2 20'	soil	2010-07-21	00:00	2010-07-27
238877	SB-3 1'	soil	2010-07-22	00:00	2010-07-27
238878	SB-3 3'	soil	2010-07-22	00:00	2010-07-27
238879	SB-3 5'	soil	2010-07-22	00:00	2010-07-27
238880	SB-3 7'	soil	2010-07-22	00:00	2010-07-27
238881	SB-3 10'	soil	2010-07-22	00:00	2010-07-27
238882	SB-3 15'	soil	2010-07-22	00:00	2010-07-27
238883	SB-3 20'	soil	2010-07-22	00:00	2010-07-27
238884	SB-3 25'	soil	2010-07-22	00:00	2010-07-27
238885	SB-4 1'	soil	2010-07-22	00:00	2010-07-27
238886	SB-4 3'	soil	2010-07-22	00:00	2010-07-27
238887	SB-4 5'	soil	2010-07-22	00:00	2010-07-27
238888	SB-4 7'	soil	2010-07-22	00:00	2010-07-27
238889	SB-4 10'	soil	2010-07-22	00:00	2010-07-27
238890	SB-4 15'	soil	2010-07-22	00:00	2010-07-27
238891	SB-4 20'	soil	2010-07-22	00:00	2010-07-27
238892	SB-5 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238893	SB-5 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238894	SB-5 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238895	SB-5 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238896	SB-5 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238897	SB-5 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238898	SB-5 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238899	SB-5 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238900	SB-5 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238901	SB-6 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238902	SB-6 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238903	SB-6 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238904	SB-6 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238905	SB-6 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238906	SB-6 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238907	SB-6 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238908	SB-6 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238909	SB-6 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238910	SB-6 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238911	SB-7 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238912	SB-7 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238913	SB-7 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238914	SB-7 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238915	SB-7 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238916	SB-7 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238917	SB-7 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238918	SB-7 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238919	SB-7 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238920	SB-7 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238921	SB-8 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238922	SB-8 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238923	SB-8 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238924	SB-8 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238925	SB-8 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238926	SB-8 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238927	SB-8 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238928	SB-8 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238929	SB-8 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238930	SB-9 1'	soil	2010-07-23	00:00	2010-07-27
238931	SB-9 3'	soil	2010-07-23	00:00	2010-07-27
238932	SB-9 5'	soil	2010-07-23	00:00	2010-07-27
238933	SB-9 7'	soil	2010-07-23	00:00	2010-07-27
238934	SB-9 10'	soil	2010-07-23	00:00	2010-07-27
238935	SB-10 1'	soil	2010-07-23	00:00	2010-07-27
238936	SB-10 3'	soil	2010-07-23	00:00	2010-07-27
238937	SB-10 5'	soil	2010-07-23	00:00	2010-07-27
238938	SB-10 7'	soil	2010-07-23	00:00	2010-07-27
238939	SB-10 10'	soil	2010-07-23	00:00	2010-07-27
238940	SB-11 1'	soil	2010-07-23	00:00	2010-07-27
238941	SB-11 3'	soil	2010-07-23	00:00	2010-07-27
238942	SB-11 5'	soil	2010-07-23	00:00	2010-07-27
238943	SB-11 7'	soil	2010-07-23	00:00	2010-07-27
238944	SB-11 10'	soil	2010-07-23	00:00	2010-07-27
238945	SB-11 15'	soil	2010-07-23	00:00	2010-07-27
238946	SB-11 20'	soil	2010-07-23	00:00	2010-07-27
238947	SB-11 25'	soil	2010-07-23	00:00	2010-07-27
238948	SB-11 30'	soil	2010-07-23	00:00	2010-07-27
238949	SB-12 1'	soil	2010-07-23	00:00	2010-07-27
238950	SB-12 3'	soil	2010-07-23	00:00	2010-07-27
238951	SB-12 5'	soil	2010-07-23	00:00	2010-07-27
238952	SB-12 7'	soil	2010-07-23	00:00	2010-07-27
238953	SB-12 10'	soil	2010-07-23	00:00	2010-07-27
238954	SB-12 15'	soil	2010-07-23	00:00	2010-07-27
238955	SB-12 20'	soil	2010-07-23	00:00	2010-07-27
238956	SB-12 25'	soil	2010-07-23	00:00	2010-07-27
238957	SB-13 1'	soil	2010-07-23	00:00	2010-07-27
238958	SB-13 3'	soil	2010-07-23	00:00	2010-07-27
238959	SB-13 5'	soil	2010-07-23	00:00	2010-07-27
238960	SB-13 7'	soil	2010-07-23	00:00	2010-07-27
238961	SB-13 10'	soil	2010-07-23	00:00	2010-07-27
238962	SB-13 15'	soil	2010-07-23	00:00	2010-07-27
238963	SB-13 20'	soil	2010-07-23	00:00	2010-07-27
238964	SB-13 25'	soil	2010-07-23	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238965	SB-13 30'	soil	2010-07-23	00:00	2010-07-27
238966	SB-14 1'	soil	2010-07-23	00:00	2010-07-27
238967	SB-14 3'	soil	2010-07-23	00:00	2010-07-27
238968	SB-14 5'	soil	2010-07-23	00:00	2010-07-27
238969	SB-14 7'	soil	2010-07-23	00:00	2010-07-27
238970	SB-14 10'	soil	2010-07-23	00:00	2010-07-27
238971	SB-14 15'	soil	2010-07-23	00:00	2010-07-27
238972	SB-14 20'	soil	2010-07-23	00:00	2010-07-27
238973	SB-14 25'	soil	2010-07-23	00:00	2010-07-27
238974	SB-15 1'	soil	2010-07-23	00:00	2010-07-27
238975	SB-15 3'	soil	2010-07-23	00:00	2010-07-27
238976	SB-15 5'	soil	2010-07-23	00:00	2010-07-27
238977	SB-15 7'	soil	2010-07-23	00:00	2010-07-27
238978	SB-15 10'	soil	2010-07-23	00:00	2010-07-27
238979	SB-15 15'	soil	2010-07-23	00:00	2010-07-27
238980	SB-15 20'	soil	2010-07-23	00:00	2010-07-27
238981	SB-15 25'	soil	2010-07-23	00:00	2010-07-27
238982	SB-15 30'	soil	2010-07-23	00:00	2010-07-27
238983	SB-2 25'	soil	2010-07-21	00:00	2010-07-27

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 79 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project COG/Pronghorn SWD 8 in. Line were received by TraceAnalysis, Inc. on 2010-07-27 and assigned to work order 10072810. Samples for work order 10072810 were received intact at a temperature of 3.2 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	61819	2010-07-28 at 08:30	72137	2010-07-28 at 10:41
BTEX	S 8021B	61861	2010-07-29 at 10:44	72339	2010-07-29 at 10:17
Chloride (Titration)	SM 4500-Cl B	61836	2010-07-29 at 08:26	72166	2010-07-29 at 15:21
Chloride (Titration)	SM 4500-Cl B	61837	2010-07-29 at 08:27	72167	2010-07-29 at 15:22
Chloride (Titration)	SM 4500-Cl B	61838	2010-07-29 at 08:27	72168	2010-07-29 at 15:23
Chloride (Titration)	SM 4500-Cl B	61839	2010-07-29 at 11:28	72250	2010-08-02 at 15:50
Chloride (Titration)	SM 4500-Cl B	61884	2010-07-30 at 08:44	72251	2010-08-02 at 15:51
Chloride (Titration)	SM 4500-Cl B	61885	2010-07-30 at 08:45	72273	2010-08-03 at 11:05
Chloride (Titration)	SM 4500-Cl B	61886	2010-07-30 at 08:45	72274	2010-08-03 at 11:06
Chloride (Titration)	SM 4500-Cl B	61887	2010-07-30 at 08:46	72320	2010-08-04 at 11:32
Chloride (Titration)	SM 4500-Cl B	61888	2010-07-30 at 08:46	72321	2010-08-04 at 11:33
Chloride (Titration)	SM 4500-Cl B	61889	2010-07-30 at 08:47	72322	2010-08-04 at 11:33
Chloride (Titration)	SM 4500-Cl B	61964	2010-08-03 at 09:08	72323	2010-08-04 at 11:34
Chloride (Titration)	SM 4500-Cl B	61965	2010-08-03 at 09:09	72325	2010-08-04 at 11:35
Chloride (Titration)	SM 4500-Cl B	61966	2010-08-03 at 09:10	72326	2010-08-04 at 11:36
TPH DRO - NEW	S 8015 D	61828	2010-07-28 at 09:37	72146	2010-07-28 at 09:37
TPH DRO - NEW	S 8015 D	61829	2010-07-28 at 09:37	72147	2010-07-28 at 09:37
TPH GRO	S 8015 D	61819	2010-07-28 at 08:30	72138	2010-07-28 at 11:08
TPH GRO	S 8015 D	61861	2010-07-29 at 10:44	72182	2010-07-29 at 10:44

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10072810 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Analytical Report

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0396	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.90	mg/Kg	1	2.00	95	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.86	mg/Kg	1	2.00	93	38.4 - 157

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Report Date: August 5, 2010
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COG/Pronghorn SWD 8 in. Line

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		107	mg/Kg	1	100	107	70 - 130

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72138
Prep Batch: 61819

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.95	mg/Kg	1	2.00	98	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.87	mg/Kg	1	2.00	94	42 - 159

Sample: 238864 - SB-1 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238865 - SB-1 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		12100	mg/Kg	100	4.00

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Lea County, NM

Sample: 238866 - SB-1 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1980	mg/Kg	100	4.00

Sample: 238867 - SB-1 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		522	mg/Kg	50	4.00

Sample: 238868 - SB-1 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		215	mg/Kg	50	4.00

Sample: 238869 - SB-1 20'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		263	mg/Kg	50	4.00

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Sample: 238870 - SB-2 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0236	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.69	mg/Kg	1	2.00	84	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.65	mg/Kg	1	2.00	82	38.4 - 157

Sample: 238870 - SB-2 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238870 - SB-2 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		105	mg/Kg	1	100	105	70 - 130

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Sample: 238870 - SB-2 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-28	Analyzed By:	AG
QC Batch:	72138	Sample Preparation:	2010-07-28	Prepared By:	AG
Prep Batch:	61819				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/Kg	1	2.00	88	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	42 - 159

Sample: 238871 - SB-2 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72166	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61836				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2400	mg/Kg	100	4.00

Sample: 238872 - SB-2 5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72166	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61836				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		13500	mg/Kg	100	4.00

Sample: 238873 - SB-2 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72167	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61837				

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8530	mg/Kg	100	4.00

Sample: 238874 - SB-2 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		211	mg/Kg	50	4.00

Sample: 238875 - SB-2 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		326	mg/Kg	50	4.00

Sample: 238876 - SB-2 20'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238877 - SB-3 1'

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0277	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	1	2.00	82	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.58	mg/Kg	1	2.00	79	38.4 - 157

Sample: 238877 - SB-3 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72167
Prep Batch: 61837

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238877 - SB-3 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 238877 - SB-3 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72138
Prep Batch: 61819

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.68	mg/Kg	1	2.00	84	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.59	mg/Kg	1	2.00	80	42 - 159

Sample: 238878 - SB-3 3'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238879 - SB-3 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10900	mg/Kg	100	4.00

Sample: 238880 - SB-3 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9660	mg/Kg	100	4.00

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Sample: 238881 - SB-3 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72167	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61837				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4200	mg/Kg	100	4.00

Sample: 238882 - SB-3 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72167	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61837				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2890	mg/Kg	100	4.00

Sample: 238883 - SB-3 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72168	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61838				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		238	mg/Kg	50	4.00

Sample: 238884 - SB-3 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72168	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61838				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		238	mg/Kg	50	4.00

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Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0266	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.14	mg/Kg	1	2.00	57	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	2.00	56	38.4 - 157

Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

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Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72138
Prep Batch: 61819

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.15	mg/Kg	1	2.00	58	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	2.00	56	42 - 159

Sample: 238886 - SB-4 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		219	mg/Kg	50	4.00

Sample: 238887 - SB-4 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10300	mg/Kg	100	4.00

Sample: 238888 - SB-4 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		12900	mg/Kg	100	4.00

Sample: 238889 - SB-4 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10100	mg/Kg	100	4.00

Sample: 238890 - SB-4 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1180	mg/Kg	100	4.00

Sample: 238891 - SB-4 20'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0415	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		0.0923	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/Kg	1	2.00	104	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.08	mg/Kg	1	2.00	104	38.4 - 157

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		637	mg/Kg	50	4.00

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72138 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		6.65	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.13	mg/Kg	1	2.00	106	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.38	mg/Kg	1	2.00	119	42 - 159

Sample: 238893 - SB-5 3' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61839 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		6440	mg/Kg	100	4.00

Sample: 238894 - SB-5 5' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61839 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8590	mg/Kg	100	4.00

Sample: 238895 - SB-5 7' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61839 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3940	mg/Kg	100	4.00

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Sample: 238896 - SB-5 10' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1450	mg/Kg	100	4.00

Sample: 238897 - SB-5 15' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		653	mg/Kg	50	4.00

Sample: 238898 - SB-5 20' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		334	mg/Kg	50	4.00

Sample: 238899 - SB-5 25' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238900 - SB-5 30' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61839 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238901 - SB-6 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0387	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.26	mg/Kg	1	2.00	63	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.21	mg/Kg	1	2.00	60	38.4 - 157

Sample: 238901 - SB-6 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61839 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10200	mg/Kg	100	4.00

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Sample: 238901 - SB-6 1' (2' BEB)

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 238901 - SB-6 1' (2' BEB)

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72138
Prep Batch: 61819

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.27	mg/Kg	1	2.00	64	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	2.00	62	42 - 159

Sample: 238902 - SB-6 3' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72250
Prep Batch: 61839

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-02
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10200	mg/Kg	100	4.00

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Sample: 238903 - SB-6 5' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72251	Date Analyzed:	2010-08-02
Prep Batch:	61884	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9200	mg/Kg	100	4.00

Sample: 238904 - SB-6 7' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72251	Date Analyzed:	2010-08-02
Prep Batch:	61884	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11100	mg/Kg	100	4.00

Sample: 238905 - SB-6 10' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72251	Date Analyzed:	2010-08-02
Prep Batch:	61884	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8650	mg/Kg	100	4.00

Sample: 238906 - SB-6 15' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72251	Date Analyzed:	2010-08-02
Prep Batch:	61884	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8250	mg/Kg	100	4.00

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Sample: 238907 - SB-6 20' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1140	mg/Kg	100	4.00

Sample: 238908 - SB-6 25' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		659	mg/Kg	50	4.00

Sample: 238909 - SB-6 30' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		516	mg/Kg	50	4.00

Sample: 238910 - SB-6 40' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		234	mg/Kg	50	4.00

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Sample: 238911 - SB-7 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0408	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.60	mg/Kg	1	2.00	80	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	38.4 - 157

Sample: 238911 - SB-7 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72251
Prep Batch: 61884

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-02
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238911 - SB-7 1' (2' BEB)

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

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Sample: 238911 - SB-7 1' (2' BEB)

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-28	Analyzed By:	AG
QC Batch:	72138	Sample Preparation:	2010-07-28	Prepared By:	AG
Prep Batch:	61819				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.59	mg/Kg	1	2.00	80	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	42 - 159

Sample: 238912 - SB-7 3' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		788	mg/Kg	50	4.00

Sample: 238913 - SB-7 5' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72273	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61885				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4730	mg/Kg	100	4.00

Sample: 238914 - SB-7 7' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72273	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61885				

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5360	mg/Kg	100	4.00

Sample: 238915 - SB-7 10' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4940	mg/Kg	100	4.00

Sample: 238916 - SB-7 15' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5020	mg/Kg	100	4.00

Sample: 238917 - SB-7 20' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		958	mg/Kg	50	4.00

Sample: 238918 - SB-7 25' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		676	mg/Kg	50	4.00

Sample: 238919 - SB-7 30' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		220	mg/Kg	50	4.00

Sample: 238920 - SB-7 40' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0265	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.72	mg/Kg	1	2.00	86	52.8 - 137

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		1.68	mg/Kg	1	2.00	84	38.4 - 157

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		98.1	mg/Kg	1	100	98	70 - 130

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72138 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/Kg	1	2.00	88	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.69	mg/Kg	1	2.00	84	42 - 159

Sample: 238922 - SB-8 3' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		254	mg/Kg	50	4.00

Sample: 238923 - SB-8 5' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7200	mg/Kg	100	4.00

Sample: 238924 - SB-8 7' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3160	mg/Kg	100	4.00

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Sample: 238925 - SB-8 10' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72274	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61886				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3020	mg/Kg	100	4.00

Sample: 238926 - SB-8 15' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72274	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61886				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2640	mg/Kg	100	4.00

Sample: 238927 - SB-8 20' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72274	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61886				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		586	mg/Kg	50	4.00

Sample: 238928 - SB-8 25' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72274	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61886				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238929 - SB-8 30' (2' BEB)

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 72274

Prep Batch: 61886

Analytical Method: SM 4500-Cl B

Date Analyzed: 2010-08-03

Sample Preparation: 2010-07-30

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238930 - SB-9 1'

Laboratory: Midland

Analysis: BTEX

QC Batch: 72339

Prep Batch: 61861

Analytical Method: S 8021B

Date Analyzed: 2010-07-29

Sample Preparation: 2010-07-29

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.57	mg/Kg	1	2.00	78	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.47	mg/Kg	1	2.00	74	38.4 - 157

Sample: 238930 - SB-9 1'

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 72274

Prep Batch: 61886

Analytical Method: SM 4500-Cl B

Date Analyzed: 2010-08-03

Sample Preparation: 2010-07-30

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238930 - SB-9 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72147	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61829				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 238930 - SB-9 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	1	2.00	82	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	42 - 159

Sample: 238931 - SB-9 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72274	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61886				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238932 - SB-9 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238933 - SB-9 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61887 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238934 - SB-9 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61887 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238935 - SB-10 1'

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72339 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0407	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200

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sample 238935 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.51	mg/Kg	1	2.00	76	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.42	mg/Kg	1	2.00	71	38.4 - 157

Sample: 238935 - SB-10 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61887 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238935 - SB-10 1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		99.5	mg/Kg	1	100	100	70 - 130

Sample: 238935 - SB-10 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.56	mg/Kg	1	2.00	78	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.43	mg/Kg	1	2.00	72	42 - 159

Sample: 238936 - SB-10 3'

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2010-08-04	Analyzed By: AR
QC Batch: 72320	Sample Preparation: 2010-07-30	Prepared By: AR
Prep Batch: 61887		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238937 - SB-10 5'

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2010-08-04	Analyzed By: AR
QC Batch: 72320	Sample Preparation: 2010-07-30	Prepared By: AR
Prep Batch: 61887		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238938 - SB-10 7'

Laboratory: Midland	Analytical Method: SM 4500-Cl B	Prep Method: N/A
Analysis: Chloride (Titration)	Date Analyzed: 2010-08-04	Analyzed By: AR
QC Batch: 72320	Sample Preparation: 2010-07-30	Prepared By: AR
Prep Batch: 61887		

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238939 - SB-10 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61887 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238940 - SB-11 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61887 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238940 - SB-11 1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 238940 - SB-11 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.08	mg/Kg	1	2.00	104	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.91	mg/Kg	1	2.00	96	42 - 159

Sample: 238941 - SB-11 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72320
Prep Batch: 61887

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238942 - SB-11 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72320
Prep Batch: 61887

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		823	mg/Kg	50	4.00

Sample: 238943 - SB-11 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72321
Prep Batch: 61888

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		12700	mg/Kg	100	4.00

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Sample: 238944 - SB-11 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		6150	mg/Kg	100	4.00

Sample: 238945 - SB-11 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1210	mg/Kg	100	4.00

Sample: 238946 - SB-11 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		782	mg/Kg	50	4.00

Sample: 238947 - SB-11 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238948 - SB-11 30'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238949 - SB-12 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238949 - SB-12 1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 238949 - SB-12 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.47	mg/Kg	1	2.00	74	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.38	mg/Kg	1	2.00	69	42 - 159

Sample: 238950 - SB-12 3'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238951 - SB-12 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5930	mg/Kg	100	4.00

Sample: 238952 - SB-12 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11200	mg/Kg	100	4.00

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Sample: 238953 - SB-12 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4460	mg/Kg	100	4.00

Sample: 238954 - SB-12 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238955 - SB-12 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238956 - SB-12 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238957 - SB-13 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238957 - SB-13 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72147	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61829				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		100	mg/Kg	1	100	100	70 - 130

Sample: 238957 - SB-13 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.93	mg/Kg	1	2.00	96	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	1	2.00	90	42 - 159

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Sample: 238958 - SB-13 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238959 - SB-13 5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10600	mg/Kg	100	4.00

Sample: 238960 - SB-13 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7190	mg/Kg	100	4.00

Sample: 238961 - SB-13 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2500	mg/Kg	100	4.00

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Sample: 238962 - SB-13 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		919	mg/Kg	50	4.00

Sample: 238963 - SB-13 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238964 - SB-13 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238965 - SB-13 30'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238966 - SB-14 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		344	mg/Kg	50	4.00

Sample: 238966 - SB-14 1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72146 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61828 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.8	mg/Kg	1	100	94	70 - 130

Sample: 238966 - SB-14 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	2.00	56	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	2.00	53	42 - 159

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Sample: 238967 - SB-14 3'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		539	mg/Kg	50	4.00

Sample: 238968 - SB-14 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4800	mg/Kg	100	4.00

Sample: 238969 - SB-14 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		906	mg/Kg	100	4.00

Sample: 238970 - SB-14 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1340	mg/Kg	100	4.00

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Sample: 238971 - SB-14 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		496	mg/Kg	50	4.00

Sample: 238972 - SB-14 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		315	mg/Kg	50	4.00

Sample: 238973 - SB-14 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238974 - SB-15 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238974 - SB-15 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72146	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61828				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		92.2	mg/Kg	1	100	92	70 - 130

Sample: 238974 - SB-15 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.984	mg/Kg	1	2.00	49	48.5 - 152
4-Bromofluorobenzene (4-BFB)		0.920	mg/Kg	1	2.00	46	42 - 159

Sample: 238975 - SB-15 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238976 - SB-15 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72325 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61965 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		798	mg/Kg	50	4.00

Sample: 238977 - SB-15 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72325 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61965 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		527	mg/Kg	50	4.00

Sample: 238978 - SB-15 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72325 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61965 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1040	mg/Kg	100	4.00

Sample: 238979 - SB-15 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72325 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61965 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1100	mg/Kg	100	4.00

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Sample: 238980 - SB-15 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1010	mg/Kg	100	4.00

Sample: 238981 - SB-15 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		252	mg/Kg	50	4.00

Sample: 238982 - SB-15 30'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238983 - SB-2 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72326	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61966				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Method Blank (1) QC Batch: 72137

QC Batch: 72137
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0150	mg/Kg	0.02
Toluene		<0.00950	mg/Kg	0.02
Ethylbenzene		<0.0106	mg/Kg	0.02
Xylene		<0.00930	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1	2.00	88	55.4 - 132

Method Blank (1) QC Batch: 72138

QC Batch: 72138
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<1.65	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/Kg	1	2.00	104	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.77	mg/Kg	1	2.00	88	52.4 - 130

Method Blank (1) QC Batch: 72146

QC Batch: 72146
Prep Batch: 61828

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		90.1	mg/Kg	1	100	90	70 - 130

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Method Blank (1) QC Batch: 72147

QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 QC Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		83.7	mg/Kg	1	100	84	70 - 130

Method Blank (1) QC Batch: 72166

QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 QC Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72167

QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 QC Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72168

QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 QC Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

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Method Blank (1) QC Batch: 72182

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<1.65	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84	52.4 - 130

Method Blank (1) QC Batch: 72250

QC Batch: 72250
Prep Batch: 61839

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72251

QC Batch: 72251
Prep Batch: 61884

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72273

QC Batch: 72273
Prep Batch: 61885

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

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Method Blank (1) QC Batch: 72274

QC Batch: 72274
Prep Batch: 61886

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72320

QC Batch: 72320
Prep Batch: 61887

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72321

QC Batch: 72321
Prep Batch: 61888

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72322

QC Batch: 72322
Prep Batch: 61889

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72323

QC Batch: 72323
Prep Batch: 61964

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

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Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72325

QC Batch: 72325 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61965 QC Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72326

QC Batch: 72326 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61966 QC Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72339

QC Batch: 72339 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 QC Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0150	mg/Kg	0.02
Toluene		<0.00950	mg/Kg	0.02
Ethylbenzene		<0.0106	mg/Kg	0.02
Xylene		<0.00930	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	55.4 - 132

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Laboratory Control Spike (LCS-1)

QC Batch: 72137
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.00	mg/Kg	1	2.00	<0.0150	100	81.9 - 108
Toluene	1.98	mg/Kg	1	2.00	<0.00950	99	81.9 - 107
Ethylbenzene	1.95	mg/Kg	1	2.00	<0.0106	98	78.4 - 107
Xylene	5.86	mg/Kg	1	6.00	<0.00930	98	79.1 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.99	mg/Kg	1	2.00	<0.0150	100	81.9 - 108	0	20
Toluene	1.98	mg/Kg	1	2.00	<0.00950	99	81.9 - 107	0	20
Ethylbenzene	1.94	mg/Kg	1	2.00	<0.0106	97	78.4 - 107	0	20
Xylene	5.86	mg/Kg	1	6.00	<0.00930	98	79.1 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.84	1.80	mg/Kg	1	2.00	92	90	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.78	1.80	mg/Kg	1	2.00	89	90	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 72138
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	69.9 - 95.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	15.9	mg/Kg	1	20.0	<1.65	80	69.9 - 95.4	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.09	2.05	mg/Kg	1	2.00	104	102	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.93	1.90	mg/Kg	1	2.00	96	95	68.2 - 132

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Laboratory Control Spike (LCS-1)

QC Batch: 72146
Prep Batch: 61828

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	251	mg/Kg	1	250	<14.5	100	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	260	mg/Kg	1	250	<14.5	104	57.4 - 133.4	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	97.8	99.6	mg/Kg	1	100	98	100	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72147
Prep Batch: 61829

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	255	mg/Kg	1	250	<14.5	102	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	250	mg/Kg	1	250	<14.5	100	57.4 - 133.4	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	99.4	99.8	mg/Kg	1	100	99	100	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72166
Prep Batch: 61836

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.4	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72167
Prep Batch: 61837

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.0	mg/Kg	1	100	<2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72168
Prep Batch: 61838

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.8	mg/Kg	1	100	<2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	69.9 - 95.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	15.0	mg/Kg	1	20.0	<1.65	75	69.9 - 95.4	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.07	1.95	mg/Kg	1	2.00	104	98	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.83	1.74	mg/Kg	1	2.00	92	87	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 72250
Prep Batch: 61839

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.6	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72251
Prep Batch: 61884

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	95.8	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 72273

Date Analyzed: 2010-08-03

Analyzed By: AR

Prep Batch: 61885

QC Preparation: 2010-07-30

Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.5	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	105	mg/Kg	1	100	<2.18	105	85 - 115	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72274

Date Analyzed: 2010-08-03

Analyzed By: AR

Prep Batch: 61886

QC Preparation: 2010-07-30

Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.5	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72320

Date Analyzed: 2010-08-04

Analyzed By: AR

Prep Batch: 61887

QC Preparation: 2010-07-30

Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.9	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 72321
Prep Batch: 61888

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72322
Prep Batch: 61889

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.2	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	101	mg/Kg	1	100	<2.18	101	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72323
Prep Batch: 61964

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.9	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 72325
Prep Batch: 61965

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.4	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	101	mg/Kg	1	100	<2.18	101	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.8	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72339
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.01	mg/Kg	1	2.00	<0.0150	100	81.9 - 108
Toluene	1.96	mg/Kg	1	2.00	<0.00950	98	81.9 - 107
Ethylbenzene	1.86	mg/Kg	1	2.00	<0.0106	93	78.4 - 107
Xylene	5.59	mg/Kg	1	6.00	<0.00930	93	79.1 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.98	mg/Kg	1	2.00	<0.0150	99	81.9 - 108	2	20
Toluene	1.94	mg/Kg	1	2.00	<0.00950	97	81.9 - 107	1	20
Ethylbenzene	1.87	mg/Kg	1	2.00	<0.0106	94	78.4 - 107	0	20
Xylene	5.62	mg/Kg	1	6.00	<0.00930	94	79.1 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.81	1.91	mg/Kg	1	2.00	90	96	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.70	1.81	mg/Kg	1	2.00	85	90	69.8 - 121

Matrix Spike (MS-1) Spiked Sample: 238784

QC Batch: 72137
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.09	mg/Kg	1	2.00	0.031	103	80.5 - 112
Toluene	2.06	mg/Kg	1	2.00	<0.00950	103	82.4 - 113
Ethylbenzene	2.05	mg/Kg	1	2.00	<0.0106	102	83.9 - 114
Xylene	6.20	mg/Kg	1	6.00	<0.00930	103	84 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.21	mg/Kg	1	2.00	0.031	109	80.5 - 112	6	20
Toluene	2.20	mg/Kg	1	2.00	<0.00950	110	82.4 - 113	7	20
Ethylbenzene	2.21	mg/Kg	1	2.00	<0.0106	110	83.9 - 114	8	20
Xylene	6.69	mg/Kg	1	6.00	<0.00930	112	84 - 114	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.17	1.60	mg/Kg	1	2	58	80	41.3 - 117
4-Bromofluorobenzene (4-BFB)	1.21	1.59	mg/Kg	1	2	60	80	35.5 - 129

Matrix Spike (MS-1) Spiked Sample: 238921

QC Batch: 72138
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	61.8 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.5	mg/Kg	1	20.0	<1.65	82	61.8 - 114	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.20	1.77	mg/Kg	1	2	60	88	50 - 162
4-Bromofluorobenzene (4-BFB)	1.28	1.81	mg/Kg	1	2	64	90	50 - 162

Matrix Spike (MS-1) Spiked Sample: 238974

QC Batch: 72146
Prep Batch: 61828

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	218	mg/Kg	1	250	<14.5	87	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	219	mg/Kg	1	250	<14.5	88	35.2 - 167.1	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	89.0	88.1	mg/Kg	1	100	89	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 238957

QC Batch: 72147
Prep Batch: 61829

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	242	mg/Kg	1	250	<14.5	97	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	250	mg/Kg	1	250	<14.5	100	35.2 - 167.1	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	95.6	99.9	mg/Kg	1	100	96	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 238872

QC Batch: 72166
Prep Batch: 61836

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	23700	mg/Kg	100	10000	13500	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	24200	mg/Kg	100	10000	13500	107	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238882

QC Batch: 72167
Prep Batch: 61837

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12700	mg/Kg	100	10000	2890	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12900	mg/Kg	100	10000	2890	100	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238892

QC Batch: 72168
Prep Batch: 61838

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10600	mg/Kg	100	10000	637	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10800	mg/Kg	100	10000	637	102	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239133

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.2	mg/Kg	1	20.0	<1.65	86	61.8 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.7	mg/Kg	1	20.0	<1.65	84	61.8 - 114	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.06	1.60	mg/Kg	1	2	53	80	50 - 162
4-Bromofluorobenzene (4-BFB)	1.08	1.57	mg/Kg	1	2	54	78	50 - 162

Matrix Spike (MS-1) Spiked Sample: 238902

QC Batch: 72250
Prep Batch: 61839

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	20200	mg/Kg	100	10000	10200	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	20500	mg/Kg	100	10000	10200	103	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 238912

QC Batch: 72251
Prep Batch: 61884

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10500	mg/Kg	100	10000	788	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11200	mg/Kg	100	10000	788	104	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238922

QC Batch: 72273
Prep Batch: 61885

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10400	mg/Kg	100	10000	254	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10600	mg/Kg	100	10000	254	103	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238932

QC Batch: 72274
Prep Batch: 61886

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	mg/Kg	100	10000	254	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10400	mg/Kg	100	10000	254	104	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 238942

QC Batch: 72320
Prep Batch: 61887

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11200	mg/Kg	100	10000	823	104	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11700	mg/Kg	100	10000	823	109	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238952

QC Batch: 72321
Prep Batch: 61888

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	21500	mg/Kg	100	10000	11200	103	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	21900	mg/Kg	100	10000	11200	107	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238962

QC Batch: 72322
Prep Batch: 61889

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11100	mg/Kg	100	10000	919	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11700	mg/Kg	100	10000	919	108	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 238972

QC Batch: 72323
Prep Batch: 61964

Date Analyzed: 2010-08-04
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Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	mg/Kg	100	10000	315	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10500	mg/Kg	100	10000	315	102	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238982

QC Batch: 72325
Prep Batch: 61965

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10400	mg/Kg	100	10000	<218	102	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239104

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9720	mg/Kg	100	10000	<218	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10100	mg/Kg	100	10000	<218	100	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Standard (CCV-1)

QC Batch: 72137

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0979	98	80 - 120	2010-07-28
Toluene		mg/Kg	0.100	0.0972	97	80 - 120	2010-07-28
Ethylbenzene		mg/Kg	0.100	0.0925	92	80 - 120	2010-07-28
Xylene		mg/Kg	0.300	0.282	94	80 - 120	2010-07-28

Standard (CCV-2)

QC Batch: 72137

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0970	97	80 - 120	2010-07-28
Toluene		mg/Kg	0.100	0.0959	96	80 - 120	2010-07-28
Ethylbenzene		mg/Kg	0.100	0.0929	93	80 - 120	2010-07-28
Xylene		mg/Kg	0.300	0.280	93	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72137

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.103	103	80 - 120	2010-07-28
Toluene		mg/Kg	0.100	0.100	100	80 - 120	2010-07-28
Ethylbenzene		mg/Kg	0.100	0.0942	94	80 - 120	2010-07-28
Xylene		mg/Kg	0.300	0.284	95	80 - 120	2010-07-28

Standard (CCV-1)

QC Batch: 72138

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.901	90	80 - 120	2010-07-28

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Lea County, NM

Standard (CCV-2)

QC Batch: 72138

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.927	93	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72138

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.896	90	80 - 120	2010-07-28

Standard (CCV-2)

QC Batch: 72146

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	231	92	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72146

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	238	95	80 - 120	2010-07-28

Standard (CCV-1)

QC Batch: 72147

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	235	94	80 - 120	2010-07-28

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Lea County, NM

Standard (CCV-2)

QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	286	114	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	283	113	80 - 120	2010-07-28

Standard (CCV-4)

QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	275	110	80 - 120	2010-07-28

Standard (ICV-1)

QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-07-29

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Lea County, NM

Standard (ICV-1)

QC Batch: 72167

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72167

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-07-29

Standard (ICV-1)

QC Batch: 72168

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.9	98	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72168

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.986	99	80 - 120	2010-07-29

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Lea County, NM

Standard (CCV-2)

QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.910	91	80 - 120	2010-07-29

Standard (ICV-1)

QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-02

Standard (CCV-1)

QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.6	98	85 - 115	2010-08-02

Standard (ICV-1)

QC Batch: 72251 Date Analyzed: 2010-08-02 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	96.3	96	85 - 115	2010-08-02

Standard (CCV-1)

QC Batch: 72251 Date Analyzed: 2010-08-02 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2010-08-02

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Standard (ICV-1)

QC Batch: 72273

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2010-08-03

Standard (CCV-1)

QC Batch: 72273

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	95.9	96	85 - 115	2010-08-03

Standard (ICV-1)

QC Batch: 72274

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.8	98	85 - 115	2010-08-03

Standard (CCV-1)

QC Batch: 72274

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-03

Standard (ICV-1)

QC Batch: 72320

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2010-08-04

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Standard (CCV-1)

QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.3	97	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.8	98	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72322 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72322 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-08-04

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Standard (ICV-1)

QC Batch: 72323

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.3	98	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72323

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72325

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72325

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-08-04

Report Date: August 5, 2010
114-6400560

Work Order: 10072810
COG/Pronghorn SWD 8 in. Line

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Standard (CCV-1)

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0963	96	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.0945	94	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0887	89	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.268	89	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.102	102	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0975	98	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.293	98	80 - 120	2010-07-29

WO# 10072810

Analysis Request of Chain of Custody Record

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ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG	SITE MANAGER: Ike Tavaraz	PROJECT NAME: Dishhorn SWD 8" Line	LAB ID. NUMBER	DATE 2010	TIME	MATRIX	COMR	GRAB	SAMPLE IDENTIFICATION Loc on, RM	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD				
												HCL	HNO3	ICE	NONE	
873	7/21					S		X	SB-2 7'	1						
874									SB-2 10'	1						
875									SB-2 15'	1						
876									SB-2 20'	1						
877	7/22								SB-3 1'	1						
878									SB-3 3'	1						
879									SB-3 5'	1						
880									SB-3 7'	1						
881									SB-3 10'	1						
882									SB-3 15'	1						

RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: 7/26/10 Time: 10:20	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 7/27/10 Time: 15:40
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: 7/27/10 Time: 10:20	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 7/27/10 Time: 15:40
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: 7/27/10 Time: 10:20	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 7/27/10 Time: 15:40
RECEIVING LABORATORY: TRACE	STATE: TX	ZIP: 79701	DATE: 7-27-10
CITY: Midland	PHONE: 409-682-4559	REMARKS: If TPH > 1,000 mg/kg Run deeper samples	
SAMPLE CONDITION WHEN RECEIVED: 3.0% intact			

PAH 8270	PCRA 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. 8270/825	PCB's 8080/808	Pest. 808/808	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
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SAMPLED BY: (Print & Initial) Kim	Date: 7/26/10 Time: 10:20
SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED TETRA TECH CONTACT PERSON: Ike Tavaraz	AIRBILL #: OTHER: Results by: RUSH Charges Authorized: Yes No

WJO #: 10072810

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: CCG		SITE MANAGER: Ike Tavaraz		PROJECT NAME: CCG/Prayhorn SUD 8" Line	
PROJECT NO.: 1146400560		SAMPLE IDENTIFICATION: Len Co., NM		PRESERVATIVE METHOD	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB
28883	7/22		S	X	SB-3 20'
884					SB-3 25'
885					SB-4 1'
886					SB-4 3'
887					SB-4 5'
888					SB-4 7'
889					SB-4 10'
890					SB-4 15'
891					SB-4 20'
892					SB-5 1' (2' BEB)

RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE: 7/22/10	
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE: 7/27/10	
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE: 7/27/10	
RECEIVING LABORATORY: TRACE		RECEIVED BY: (Signature)		DATE: 7/27/10	
ADDRESS: Midland		STATE: TX		ZIP: 79701	
CONTACT: [Signature]		PHONE: [Signature]		TIME: 15:00	
SAMPLE CONDITION WHEN RECEIVED: S.D. intact		REMARKS: If TPH > 1000 mg/kg Run deeper samples		Run BTEX on the (S) Highest TPH	

ANALYSIS REQUEST (Circle or Specify Method No.)

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. 8270/825	
PCB's 8080/808	
Per. 808/608	
Chloride	
Gamma Spec.	
Alpha Beta (Air)	
PLM (Asbestos)	
Major Anions/Cations, pH, TDS	

SAMPLED BY: (Print & Initial) Kim		DATE: 7/22/10	
SAMPLE SHIPPED BY: (Circle)		AIRBILL #:	
FEDEX	BUS		
HAND DELIVERED	UPS		
TETRA TECH CONTACT PERSON: Ike Tavaraz		RESULTS BY:	
		RUSH CHARGES AUTHORIZED: Yes	

WDO #: 100728/0

Analysis Request of Chain of Custody Record

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ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG		SITE MANAGER: Ike Tavares	
PROJECT NO.: 114-640 0560		PROJECT NAME: COG / Aoyahon SD 8" Line	
LAB I.D. NUMBER	DATE	TIME	SAMPLE IDENTIFICATION
288913	7/22		SB-7 5' (2' BED)
914			SB-7 7' (2' BED)
915			SB-7 10' (2' BED)
916			SB-7 15' (2' BED)
917			SB-7 20' (2' BED)
918			SB-7 25' (2' BED)
919			SB-7 30' (2' BED)
920			SB-7 40' (2' BED)
921			SB-8 1' (2' BED)
922			SB-8 3' (2' BED)

MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	PREPARED (Y/N)	PRESERVATIVE METHOD		
					HCL	HNO3	ICE
							NONE

PAH 8270	TCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCRP Volatiles	TCRP Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCBs 8080/808	Post. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
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RELINQUISHED BY: (Signature)	Date: 7/24/02	Time: 1:30	RECEIVED BY: (Signature)	Date: 7/24/02	Time: 1:30
RELINQUISHED BY: (Signature)	Date: 7/23/02	Time: 4:00	RECEIVED BY: (Signature)	Date: 7/23/02	Time: 4:00
RELINQUISHED BY: (Signature)	Date: 7/23/02	Time: 4:00	RECEIVED BY: (Signature)	Date: 7/23/02	Time: 4:00
RECEIVING LABORATORY: TRAC	ADDRESS: Midland	STATE: TX	ZIP: 79701	DATE: 7-27-02	TIME: 11:00
REMARKS: If TPH > 1000 mg/kg Run deeper samples					
SAMPLE CONDITION WHEN RECEIVED:					

SAMPLE SHIPPED BY: (Circle) FEDERAL		SAMPLE SHIPPED BY: (Initial) Kim	
BUS		UPS	
MAILED DELIVERED		TETRA TECH CONTACT PERSON: Ike Tavares	
Results by:		RUSH Charges Authorized:	
Yes		No	

Run BTEX on the (8) Highest TPH

WO # 10072810

Analysis Request of Chain of Custody Record

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ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG		SITE MANAGER: Fle Tavaraz		PROJECT NAME: COG / Proghon SWD 8ⁿ Line		PRESERVATIVE METHOD	
PROJECT NO.: 114-6400560		PROJECT IDENTIFICATION La Co., NM		NUMBER OF CONTAINERS		PRESERVATIVE METHOD	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	PRESERVATIVE METHOD
208923	7/22		S	X	SB-8 5' (2' DEB)	1	HCL
924					SB-8 7' (2' DEB)	1	ICE
926					SB-8 10' (2' DEB)	1	HNO3
926					SB-8 15' (2' DEB)	1	ICL
927					SB-8 20' (2' DEB)	1	ICL
928					SB-8 25' (2' DEB)	1	ICL
929					SB-8 30' (2' DEB)	1	ICL
930	7/23				SB-9 1'	1	ICL
931					SB-9 3'	1	ICL
932					SB-9 5'	1	ICL

RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY: (Signature)	Date:	Time:
<i>[Signature]</i>	7/24/10	12:10	<i>[Signature]</i>	7/24/10	10:10
RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY: (Signature)	Date:	Time:
<i>[Signature]</i>	7/24/10	3:00	<i>[Signature]</i>	7/24/10	3:00
RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY: (Signature)	Date:	Time:
<i>[Signature]</i>	7/24/10	15:00	<i>[Signature]</i>	7/24/10	15:00

RECEIVING LABORATORY:	STATE:	ZIP:	PHONE:	DATE:	TIME:
TETRA TECH	TX			7-24-10	15:00
ADDRESS:					
CITY:					
CONTACT:					

SAMPLE CONDITION WHEN RECEIVED:	REMARKS:
3.5c intact	If TPH > 1,000 mg/kg Run deeper samples

ANALYSIS REQUEST (Circle or Specify Method No.)	DATE:	TIME:
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. 8270/825		
PCBs 8080/808		
Pest. 808/608		
Chlordane		
Gamma Spec.		
Alpha Beta (Am)		
PLM (Asbestos)		
Major Anions/Cations, pH, TDS		

DATE:	TIME:
7/26/10	

AIRBILL #:	OTHER:

RESULTS BY:	RUSH CHARGES AUTHORIZED:
Fle Tavaraz	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.

Run BTEX on the (8) Highest TPH

Analysis Request of Chain of Custody Record

PAGE: 8 OF: 12

21 of 30

ANALYSIS REQUEST
(Circle or Specify Method No.)

TETRA TECH

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

CLIENT NAME: 006		SITE MANAGER: Ilee Tayler		PROJECT NAME: 006 / Prothon SWD 8" Line		NUMBER OF CONTAINERS FILTERED (Y/N)		PRESERVATIVE METHOD			
PROJECT NO.: 114-6400560								HCL	HNO3	ICE	NONE
LAB I.D. NUMBER	DATE DIO	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION lea G., PM					
933	7/23		S	X	SB-9 7'	1				X	
934	/		/	/	SB-9 10'	1				X	
935	/		/	/	SB-10 1'	1				X	
936	/		/	/	SD-10 3'	1				X	
937	/		/	/	SD-10 5'	1				X	
938	/		/	/	SD-10 7'	1				X	
939	/		/	/	SD-10 10'	1				X	
940	/		/	/	SD-11 1'	1				X	
941	/		/	/	SD-11 3'	1				X	
942	/		/	/	SD-11 5'	1				X	

RECEIVING LABORATORY: TRACE ADDRESS: CITY: Midland STATE: TX PHONE: ZIP:

RELINQUISHED BY: (Signature) DATE: 7/24/00 TIME: 12:00

RELINQUISHED BY: (Signature) DATE: 7/24/00 TIME: 3:00 PM

RELINQUISHED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature) DATE: 7/24/00 TIME: 15:00

RECEIVED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature) DATE: TIME:

REMARKS: If TPH > 1,000 mg/lcy Run deep

3.0°C 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.

Analysis Request of Chain of Custody Record

ANALYSIS REQUEST
(Circle or Specify Method No.)

TETRA TECH

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

CLIENT NAME: C06		SITE MANAGER: Ike Tavaraz		PROJECT NAME: C06 / Prothon SUD 8" line		PROJECT NO.: 1146-100560		LAB I.D. NUMBER		DATE	TIME	MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	PRESERVATIVE METHOD
258963	7/23	2010	S	X	SB-12	20'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
964					SB-13	25'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
965					SB-13	30'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
966					SB-14	1'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
967					SB-14	3'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
968					SB-14	5'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
969					SB-14	7'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
970					SB-14	10'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
971					SB-14	15'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
972					SB-14	20'	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 10:20

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 5:15 PM

RELINQUISHED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 15:00

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVING LABORATORY: *[Signature]*

ADDRESS: *[Signature]*

CITY: *[Signature]* STATE: TX ZIP: *[Signature]*

CONTACT: *[Signature]* PHONE: *[Signature]*

DATE: 7-23-10 TIME: 15:00

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 10:20

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 5:15 PM

RELINQUISHED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 15:00

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVING LABORATORY: *[Signature]*

ADDRESS: *[Signature]*

CITY: *[Signature]* STATE: TX ZIP: *[Signature]*

CONTACT: *[Signature]* PHONE: *[Signature]*

DATE: 7-23-10 TIME: 15:00

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 10:20

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 5:15 PM

RELINQUISHED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: 7/23/10 Time: 15:00

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: Time:

RECEIVING LABORATORY: *[Signature]*

ADDRESS: *[Signature]*

CITY: *[Signature]* STATE: TX ZIP: *[Signature]*

CONTACT: *[Signature]* PHONE: *[Signature]*

DATE: 7-23-10 TIME: 15:00

3.7° intact	Inf TPH > 1,000 mg/kg Run deeper sample
-------------	---

Run BTEX on the (8) Highest TPH

Analysis Request of Chain of Custody Record

ANALYSIS REQUEST

(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG		SITE MANAGER: Fke Tavaroz		PROJECT NAME: COG / Proghon SWD 8" Lnc		PRESERVATIVE METHOD		
PROJECT NO.: 114-6400560		SAMPLE IDENTIFICATION len Co, NM		NUMBER OF CONTAINERS		FILTERED (Y/N)		
LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP	GRAB	HCL	HNO3	
9773	7/23		S	X	SB-14 25'			
9774			(		SB-15 1'			
9775			(		SB-15 3'			
9776			(		SB-15 5'			
9777			(		SB-15 7'			
9778			(		SB-15 10'			
9779			(		SB-15 15'			
9800			(		SB-15 20'			
9801			(		SB-15 25'			
9802			(		SB-15 30'			

RELINQUISHED BY: (Signature) Date: 7/26/10 Time: 12:10

RELINQUISHED BY: (Signature) Date: 7-27-10 Time: 3:00

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: 7.27.10 Time: 15:00

RECEIVED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: TRACE

ADDRESS: 114-6400560

CITY: Proghon STATE: NM ZIP:

CONTACT: Fke Tavaroz PHONE:

REMARKS: IS TPH > 1000 mg/kg Run deeper samples

32°C intact

Don BTEX on the (f) Wharf toll

Summary Report

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

Report Date: August 9, 2010

Work Order: 10072902



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239103	SB-16 1'	soil	2010-07-27	00:00	2010-07-28
239104	SB-16 3'	soil	2010-07-27	00:00	2010-07-28
239105	SB-16 5'	soil	2010-07-27	00:00	2010-07-28
239106	SB-16 7'	soil	2010-07-27	00:00	2010-07-28
239107	SB-16 10'	soil	2010-07-27	00:00	2010-07-28
239108	SB-16 15'	soil	2010-07-27	00:00	2010-07-28
239109	SB-16 20'	soil	2010-07-27	00:00	2010-07-28
239110	SB-16 25'	soil	2010-07-27	00:00	2010-07-28
239111	SB-17 1'	soil	2010-07-27	00:00	2010-07-28
239112	SB-17 3'	soil	2010-07-27	00:00	2010-07-28
239113	SB-17 5'	soil	2010-07-27	00:00	2010-07-28
239114	SB-17 7'	soil	2010-07-27	00:00	2010-07-28
239115	SB-18 1'	soil	2010-07-27	00:00	2010-07-28
239116	SB-18 3'	soil	2010-07-27	00:00	2010-07-28
239117	SB-18 5'	soil	2010-07-27	00:00	2010-07-28
239118	SB-18 7'	soil	2010-07-27	00:00	2010-07-28
239119	SB-18 10'	soil	2010-07-27	00:00	2010-07-28
239120	SB-18 15'	soil	2010-07-27	00:00	2010-07-28
239121	SB-18 20'	soil	2010-07-27	00:00	2010-07-28
239122	SB-19 1'	soil	2010-07-27	00:00	2010-07-28
239123	SB-19 3'	soil	2010-07-27	00:00	2010-07-28
239124	SB-19 5'	soil	2010-07-27	00:00	2010-07-28
239125	SB-19 7'	soil	2010-07-27	00:00	2010-07-28
239126	SB-19 10'	soil	2010-07-27	00:00	2010-07-28
239127	SB-20 1'	soil	2010-07-27	00:00	2010-07-28
239128	SB-20 3'	soil	2010-07-27	00:00	2010-07-28
239129	SB-20 5'	soil	2010-07-27	00:00	2010-07-28
239130	SB-20 7'	soil	2010-07-27	00:00	2010-07-28
239131	SB-20 10'	soil	2010-07-27	00:00	2010-07-28
239132	SB-20 15'	soil	2010-07-27	00:00	2010-07-28

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239133	SB-21 1'	soil	2010-07-27	00:00	2010-07-28
239134	SB-21 3'	soil	2010-07-27	00:00	2010-07-28
239135	SB-21 5'	soil	2010-07-27	00:00	2010-07-28
239136	SB-21 7'	soil	2010-07-27	00:00	2010-07-28
239137	SB-21 10'	soil	2010-07-27	00:00	2010-07-28
239138	SB-21 15'	soil	2010-07-27	00:00	2010-07-28
239139	SB-21 20'	soil	2010-07-27	00:00	2010-07-28
239140	SB-21 25'	soil	2010-07-27	00:00	2010-07-28
239141	SB-18 25'	soil	2010-07-27	00:00	2010-07-28

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)
239103 - SB-16 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
239111 - SB-17 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
239115 - SB-18 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
239122 - SB-19 1'					<50.0	<2.00
239127 - SB-20 1'					<50.0	<2.00
239133 - SB-21 1'					<50.0	<2.00

Sample: 239103 - SB-16 1'

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

Sample: 239104 - SB-16 3'

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

Sample: 239105 - SB-16 5'

Param	Flag	Result	Units	RL
Chloride		1820	mg/Kg	4.00

Sample: 239106 - SB-16 7'

Param	Flag	Result	Units	RL
Chloride		1050	mg/Kg	4.00

Sample: 239107 - SB-16 10'

Param	Flag	Result	Units	RL
Chloride		889	mg/Kg	4.00

Sample: 239108 - SB-16 15'

Param	Flag	Result	Units	RL
Chloride		645	mg/Kg	4.00

Sample: 239109 - SB-16 20'

Param	Flag	Result	Units	RL
Chloride		244	mg/Kg	4.00

Sample: 239110 - SB-16 25'

Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00

Sample: 239111 - SB-17 1'

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

Sample: 239112 - SB-17 3'

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

Sample: 239113 - SB-17 5'

Param	Flag	Result	Units	RL
Chloride		225	mg/Kg	4.00

Sample: 239114 - SB-17 7'

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

Sample: 239115 - SB-18 1'

Param	Flag	Result	Units	RL
Chloride		203	mg/Kg	4.00

Sample: 239116 - SB-18 3'

Param	Flag	Result	Units	RL
Chloride		279	mg/Kg	4.00

Sample: 239117 - SB-18 5'

Param	Flag	Result	Units	RL
Chloride		7710	mg/Kg	4.00

Sample: 239118 - SB-18 7'

Param	Flag	Result	Units	RL
Chloride		7840	mg/Kg	4.00

Sample: 239119 - SB-18 10'

Param	Flag	Result	Units	RL
Chloride		5750	mg/Kg	4.00

Sample: 239120 - SB-18 15'

Param	Flag	Result	Units	RL
Chloride		889	mg/Kg	4.00

Sample: 239121 - SB-18 20'

Param	Flag	Result	Units	RL
Chloride		440	mg/Kg	4.00

Sample: 239122 - SB-19 1'

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

Sample: 239123 - SB-19 3'

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

Sample: 239124 - SB-19 5'

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

Sample: 239125 - SB-19 7'

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

Sample: 239126 - SB-19 10'

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

Sample: 239127 - SB-20 1'

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

Sample: 239128 - SB-20 3'

Param	Flag	Result	Units	RL
Chloride		204	mg/Kg	4.00

Sample: 239129 - SB-20 5'

Param	Flag	Result	Units	RL
Chloride		3290	mg/Kg	4.00

Sample: 239130 - SB-20 7'

Param	Flag	Result	Units	RL
Chloride		8720	mg/Kg	4.00

Sample: 239131 - SB-20 10'

Param	Flag	Result	Units	RL
Chloride		417	mg/Kg	4.00

Sample: 239132 - SB-20 15'

Param	Flag	Result	Units	RL
Chloride		394	mg/Kg	4.00

Sample: 239133 - SB-21 1'

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

Sample: 239134 - SB-21 3'

Param	Flag	Result	Units	RL
Chloride		292	mg/Kg	4.00

Sample: 239135 - SB-21 5'

Param	Flag	Result	Units	RL
Chloride		1470	mg/Kg	4.00

Sample: 239136 - SB-21 7'

Param	Flag	Result	Units	RL
Chloride		376	mg/Kg	4.00

Sample: 239137 - SB-21 10'

Param	Flag	Result	Units	RL
Chloride		728	mg/Kg	4.00

Sample: 239138 - SB-21 15'

Param	Flag	Result	Units	RL
Chloride		1620	mg/Kg	4.00

Sample: 239139 - SB-21 20'

Param	Flag	Result	Units	RL
Chloride		427	mg/Kg	4.00

Sample: 239140 - SB-21 25'

Param	Flag	Result	Units	RL
Chloride		269	mg/Kg	4.00

Sample: 239141 - SB-18 25'

Param	Flag	Result	Units	RL
Chloride		301	mg/Kg	4.00



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: tab@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFVB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 9, 2010

Work Order: 10072902



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239103	SB-16 1'	soil	2010-07-27	00:00	2010-07-28
239104	SB-16 3'	soil	2010-07-27	00:00	2010-07-28
239105	SB-16 5'	soil	2010-07-27	00:00	2010-07-28
239106	SB-16 7'	soil	2010-07-27	00:00	2010-07-28
239107	SB-16 10'	soil	2010-07-27	00:00	2010-07-28
239108	SB-16 15'	soil	2010-07-27	00:00	2010-07-28
239109	SB-16 20'	soil	2010-07-27	00:00	2010-07-28
239110	SB-16 25'	soil	2010-07-27	00:00	2010-07-28
239111	SB-17 1'	soil	2010-07-27	00:00	2010-07-28
239112	SB-17 3'	soil	2010-07-27	00:00	2010-07-28

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239113	SB-17 5'	soil	2010-07-27	00:00	2010-07-28
239114	SB-17 7'	soil	2010-07-27	00:00	2010-07-28
239115	SB-18 1'	soil	2010-07-27	00:00	2010-07-28
239116	SB-18 3'	soil	2010-07-27	00:00	2010-07-28
239117	SB-18 5'	soil	2010-07-27	00:00	2010-07-28
239118	SB-18 7'	soil	2010-07-27	00:00	2010-07-28
239119	SB-18 10'	soil	2010-07-27	00:00	2010-07-28
239120	SB-18 15'	soil	2010-07-27	00:00	2010-07-28
239121	SB-18 20'	soil	2010-07-27	00:00	2010-07-28
239122	SB-19 1'	soil	2010-07-27	00:00	2010-07-28
239123	SB-19 3'	soil	2010-07-27	00:00	2010-07-28
239124	SB-19 5'	soil	2010-07-27	00:00	2010-07-28
239125	SB-19 7'	soil	2010-07-27	00:00	2010-07-28
239126	SB-19 10'	soil	2010-07-27	00:00	2010-07-28
239127	SB-20 1'	soil	2010-07-27	00:00	2010-07-28
239128	SB-20 3'	soil	2010-07-27	00:00	2010-07-28
239129	SB-20 5'	soil	2010-07-27	00:00	2010-07-28
239130	SB-20 7'	soil	2010-07-27	00:00	2010-07-28
239131	SB-20 10'	soil	2010-07-27	00:00	2010-07-28
239132	SB-20 15'	soil	2010-07-27	00:00	2010-07-28
239133	SB-21 1'	soil	2010-07-27	00:00	2010-07-28
239134	SB-21 3'	soil	2010-07-27	00:00	2010-07-28
239135	SB-21 5'	soil	2010-07-27	00:00	2010-07-28
239136	SB-21 7'	soil	2010-07-27	00:00	2010-07-28
239137	SB-21 10'	soil	2010-07-27	00:00	2010-07-28
239138	SB-21 15'	soil	2010-07-27	00:00	2010-07-28
239139	SB-21 20'	soil	2010-07-27	00:00	2010-07-28
239140	SB-21 25'	soil	2010-07-27	00:00	2010-07-28
239141	SB-18 25'	soil	2010-07-27	00:00	2010-07-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 31 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project COG/Pronghorn SWD 8 in. Line were received by TraceAnalysis, Inc. on 2010-07-28 and assigned to work order 10072902. Samples for work order 10072902 were received intact at a temperature of 3.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	61861	2010-07-29 at 10:44	72339	2010-07-29 at 10:17
Chloride (Titration)	SM 4500-Cl B	61966	2010-08-03 at 09:10	72326	2010-08-04 at 11:36
Chloride (Titration)	SM 4500-Cl B	61967	2010-08-03 at 12:10	72341	2010-08-04 at 15:03
Chloride (Titration)	SM 4500-Cl B	61969	2010-08-03 at 12:11	72342	2010-08-04 at 15:04
Chloride (Titration)	SM 4500-Cl B	61970	2010-08-03 at 12:11	72416	2010-08-06 at 15:22
Chloride (Titration)	SM 4500-Cl B	62027	2010-08-05 at 10:26	72417	2010-08-06 at 15:22
TPH DRO - NEW	S 8015 D	61846	2010-07-29 at 09:53	72158	2010-07-29 at 09:53
TPH GRO	S 8015 D	61861	2010-07-29 at 10:44	72182	2010-07-29 at 10:44

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10072902 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Analytical Report

Sample: 239103 - SB-16 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72339
Prep Batch: 61861

Analytical Method: S 8021B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.62	mg/Kg	1	2.00	81	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	1	2.00	78	38.4 - 157

Sample: 239103 - SB-16 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72326
Prep Batch: 61966

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239103 - SB-16 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72158
Prep Batch: 61846

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		98.2	mg/Kg	1	100	98	70 - 130

Sample: 239103 - SB-16 1'

Laboratory: Midland			
Analysis: TPH GRO	Analytical Method: S 8015 D	Prep Method: S 5035	
QC Batch: 72182	Date Analyzed: 2010-07-29	Analyzed By: AG	
Prep Batch: 61861	Sample Preparation: 2010-07-29	Prepared By: AG	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.69	mg/Kg	1	2.00	84	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	1	2.00	78	42 - 159

Sample: 239104 - SB-16 3'

Laboratory: Midland			
Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A	
QC Batch: 72326	Date Analyzed: 2010-08-04	Analyzed By: AR	
Prep Batch: 61966	Sample Preparation: 2010-08-03	Prepared By: AR	

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239105 - SB-16 5'

Laboratory: Midland			
Analysis: Chloride (Titration)	Analytical Method: SM 4500-Cl B	Prep Method: N/A	
QC Batch: 72341	Date Analyzed: 2010-08-04	Analyzed By: AR	
Prep Batch: 61967	Sample Preparation: 2010-08-03	Prepared By: AR	

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1820	mg/Kg	100	4.00

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Sample: 239106 - SB-16 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1050	mg/Kg	100	4.00

Sample: 239107 - SB-16 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		889	mg/Kg	100	4.00

Sample: 239108 - SB-16 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		645	mg/Kg	50	4.00

Sample: 239109 - SB-16 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		244	mg/Kg	50	4.00

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Sample: 239110 - SB-16 25'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72341 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61967 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		234	mg/Kg	50	4.00

Sample: 239111 - SB-17 1'

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72339 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.59	mg/Kg	1	2.00	80	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.52	mg/Kg	1	2.00	76	38.4 - 157

Sample: 239111 - SB-17 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72341 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61967 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 239111 - SB-17 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-29	Analyzed By:	kg
QC Batch:	72158	Sample Preparation:	2010-07-29	Prepared By:	kg
Prep Batch:	61846				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.1	mg/Kg	1	100	95	70 - 130

Sample: 239111 - SB-17 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	1	2.00	82	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.51	mg/Kg	1	2.00	76	42 - 159

Sample: 239112 - SB-17 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 239113 - SB-17 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72341 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61967 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		225	mg/Kg	50	4.00

Sample: 239114 - SB-17 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72341 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61967 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239115 - SB-18 1'

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72339 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.70	mg/Kg	1	2.00	85	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.63	mg/Kg	1	2.00	82	38.4 - 157

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Sample: 239115 - SB-18 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61969 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		203	mg/Kg	50	4.00

Sample: 239115 - SB-18 1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72158 Date Analyzed: 2010-07-29 Analyzed By: kg
Prep Batch: 61846 Sample Preparation: 2010-07-29 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.5	mg/Kg	1	100	96	70 - 130

Sample: 239115 - SB-18 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.72	mg/Kg	1	2.00	86	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.63	mg/Kg	1	2.00	82	42 - 159

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Sample: 239116 - SB-18 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		279	mg/Kg	50	4.00

Sample: 239117 - SB-18 5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7710	mg/Kg	100	4.00

Sample: 239118 - SB-18 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7840	mg/Kg	100	4.00

Sample: 239119 - SB-18 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5750	mg/Kg	100	4.00

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Sample: 239120 - SB-18 15'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72342
Prep Batch: 61969

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		889	mg/Kg	100	4.00

Sample: 239121 - SB-18 20'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72342
Prep Batch: 61969

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		440	mg/Kg	50	4.00

Sample: 239122 - SB-19 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72342
Prep Batch: 61969

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239122 - SB-19 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72158
Prep Batch: 61846

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.1	mg/Kg	1	100	95	70 - 130

Sample: 239122 - SB-19 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.71	mg/Kg	1	2.00	86	42 - 159

Sample: 239123 - SB-19 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72342
Prep Batch: 61969

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239124 - SB-19 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72342
Prep Batch: 61969

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 239125 - SB-19 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239126 - SB-19 10'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239127 - SB-20 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239127 - SB-20 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72158
Prep Batch: 61846

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		97.6	mg/Kg	1	100	98	70 - 130

Sample: 239127 - SB-20 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	2.00	56	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	2.00	52	42 - 159

Sample: 239128 - SB-20 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		204	mg/Kg	50	4.00

Sample: 239129 - SB-20 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3290	mg/Kg	100	4.00

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Sample: 239130 - SB-20 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72416	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	61970				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8720	mg/Kg	100	4.00

Sample: 239131 - SB-20 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72416	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	61970				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		417	mg/Kg	50	4.00

Sample: 239132 - SB-20 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72416	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	61970				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		394	mg/Kg	50	4.00

Sample: 239133 - SB-21 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72416	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	61970				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 239133 - SB-21 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72158
Prep Batch: 61846

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		97.4	mg/Kg	1	100	97	70 - 130

Sample: 239133 - SB-21 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.71	mg/Kg	1	2.00	86	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.56	mg/Kg	1	2.00	78	42 - 159

Sample: 239134 - SB-21 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		292	mg/Kg	50	4.00

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Sample: 239135 - SB-21 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 Sample Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1470	mg/Kg	100	4.00

Sample: 239136 - SB-21 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 Sample Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		376	mg/Kg	50	4.00

Sample: 239137 - SB-21 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 Sample Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		728	mg/Kg	50	4.00

Sample: 239138 - SB-21 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 Sample Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1620	mg/Kg	100	4.00

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Sample: 239139 - SB-21 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72417	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	62027				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		427	mg/Kg	50	4.00

Sample: 239140 - SB-21 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72417	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	62027				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		269	mg/Kg	50	4.00

Sample: 239141 - SB-18 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72417	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	62027				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		301	mg/Kg	50	4.00

Method Blank (1) QC Batch: 72158

QC Batch:	72158	Date Analyzed:	2010-07-29	Analyzed By:	kg
Prep Batch:	61846	QC Preparation:	2010-07-29	Prepared By:	kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	mg/Kg	50

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		94.0	mg/Kg	1	100	94	70 - 130

Method Blank (1) QC Batch: 72182

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Prep Batch: 61861

QC Preparation: 2010-07-29

Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<1.65	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84	52.4 - 130

Method Blank (1) QC Batch: 72326

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

Prep Batch: 61966

QC Preparation: 2010-08-03

Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72339

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Prep Batch: 61861

QC Preparation: 2010-07-29

Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0150	mg/Kg	0.02
Toluene		<0.00950	mg/Kg	0.02
Ethylbenzene		<0.0106	mg/Kg	0.02
Xylene		<0.00930	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	55.4 - 132

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Method Blank (1) QC Batch: 72341

QC Batch: 72341
Prep Batch: 61967

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72342

QC Batch: 72342
Prep Batch: 61969

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72416

QC Batch: 72416
Prep Batch: 61970

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72417

QC Batch: 72417
Prep Batch: 62027

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-05

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: 72158
Prep Batch: 61846

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: kg
Prepared By: kg

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	272	mg/Kg	1	250	<14.5	109	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	282	mg/Kg	1	250	<14.5	113	57.4 - 133.4	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	107	110	mg/Kg	1	100	107	110	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Prep Batch: 61861

QC Preparation: 2010-07-29

Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	69.9 - 95.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	15.0	mg/Kg	1	20.0	<1.65	75	69.9 - 95.4	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.07	1.95	mg/Kg	1	2.00	104	98	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.83	1.74	mg/Kg	1	2.00	92	87	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

Prep Batch: 61966

QC Preparation: 2010-08-03

Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.8	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72339
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.01	mg/Kg	1	2.00	<0.0150	100	81.9 - 108
Toluene	1.96	mg/Kg	1	2.00	<0.00950	98	81.9 - 107
Ethylbenzene	1.86	mg/Kg	1	2.00	<0.0106	93	78.4 - 107
Xylene	5.59	mg/Kg	1	6.00	<0.00930	93	79.1 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.98	mg/Kg	1	2.00	<0.0150	99	81.9 - 108	2	20
Toluene	1.94	mg/Kg	1	2.00	<0.00950	97	81.9 - 107	1	20
Ethylbenzene	1.87	mg/Kg	1	2.00	<0.0106	94	78.4 - 107	0	20
Xylene	5.62	mg/Kg	1	6.00	<0.00930	94	79.1 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.81	1.91	mg/Kg	1	2.00	90	96	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.70	1.81	mg/Kg	1	2.00	85	90	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 72341
Prep Batch: 61967

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.3	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	7	20

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72342
Prep Batch: 61969

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.9	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72416
Prep Batch: 61970

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	95.9	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.8	mg/Kg	1	100	<2.18	100	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72417
Prep Batch: 62027

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-05

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.4	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239133

QC Batch: 72158
Prep Batch: 61846

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	238	mg/Kg	1	250	<14.5	95	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	253	mg/Kg	1	250	<14.5	101	35.2 - 167.1	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	94.7	101	mg/Kg	1	100	95	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 239133

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.2	mg/Kg	1	20.0	<1.65	86	61.8 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.7	mg/Kg	1	20.0	<1.65	84	61.8 - 114	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.06	1.60	mg/Kg	1	2	53	80	50 - 162
4-Bromofluorobenzene (4-BFB)	1.08	1.57	mg/Kg	1	2	54	78	50 - 162

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Matrix Spike (MS-1) Spiked Sample: 239104

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9720	mg/Kg	100	10000	<218	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10100	mg/Kg	100	10000	<218	100	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239114

QC Batch: 72341
Prep Batch: 61967

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10400	mg/Kg	100	10000	<218	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10600	mg/Kg	100	10000	<218	104	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239124

QC Batch: 72342
Prep Batch: 61969

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10300	mg/Kg	100	10000	<218	102	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 239134

QC Batch: 72416
Prep Batch: 61970

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9680	mg/Kg	100	10000	292	94	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	9940	mg/Kg	100	10000	292	96	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239391

QC Batch: 72417
Prep Batch: 62027

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-05

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	371	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10300	mg/Kg	100	10000	371	99	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 72158

Date Analyzed: 2010-07-29

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	278	111	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72158

Date Analyzed: 2010-07-29

Analyzed By: kg

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	283	113	80 - 120	2010-07-29

Standard (CCV-1)

QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.986	99	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.910	91	80 - 120	2010-07-29

Standard (CCV-3)

QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	80 - 120	2010-07-29

Standard (ICV-1)

QC Batch: 72326 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72326 Date Analyzed: 2010-08-04 Analyzed By: AR

Report Date: August 9, 2010
114-6400560

Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

Page Number: 29 of 31
Lea County, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0963	96	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.0945	94	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0887	89	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.268	89	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.102	102	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0975	98	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.293	98	80 - 120	2010-07-29

Standard (ICV-1)

QC Batch: 72341

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72341

Date Analyzed: 2010-08-04

Analyzed By: AR

Report Date: August 9, 2010
114-6400560

Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

Page Number: 30 of 31
Lea County, NM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.1	98	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.2	97	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72416 Date Analyzed: 2010-08-06 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-06

Standard (CCV-1)

QC Batch: 72416 Date Analyzed: 2010-08-06 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-08-06

Standard (ICV-1)

QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR

Report Date: August 9, 2010
114-6400560

Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

Page Number: 31 of 31
Lea County, NM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-08-06

Standard (CCV-1)

QC Batch: 72417

Date Analyzed: 2010-08-06

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-06

Analysis Request of Chain of Custody Record

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

CLIENT NAME: COG		SITE MANAGER: Ike Tavaraz		PROJECT NAME: COG / Pronghorn SWD 8" Line		SAMPLE IDENTIFICATION Lea Co., NM	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	PRESERVATIVE METHOD
229103	7/27		S		X	1	NONE
104							ICE
105							HNO3
106							HCL
107							ICL
108							ICL
109							ICL
110							ICL
111							ICL
112							ICL

RELINQUISHED BY (Signature)	Date:	Time:	RECEIVED BY (Signature)	Date:	Time:
[Signature]	7/27/10	2:30	[Signature]	7/28/10	2:24 PM
[Signature]	7/28/10	2:30	[Signature]	7/28/10	2:30
[Signature]	7/28/10	2:30	[Signature]	7/28/10	2:35 PM

RECEIVING LABORATORY:	ADDRESS:	CITY:	STATE:	ZIP:	PHONE:	DATE:	TIME:
IF TPH > 1000 mg/kg Run deeper samples							

CLIENT NAME:	PROJECT NO.:	LAB I.D. NUMBER:	DATE:	TIME:	MATRIX:	COMP:	GRAB:	SAMPLE IDENTIFICATION:	NUMBER OF CONTAINERS:	PRELIMINARY METHOD:	RELINQUISHED BY (Signature):	Date:	Time:	RECEIVED BY (Signature):	Date:	Time:
COG	114600560	229103	7/27		S		X	SB-16 1'	1	NONE	[Signature]	7/27/10	2:30	[Signature]	7/28/10	2:24 PM
		104						SB-16 3'		ICE	[Signature]			[Signature]		
		105						SB-16 5'		HNO3	[Signature]			[Signature]		
		106						SB-16 7'		HCL	[Signature]			[Signature]		
		107						SB-16 10'		ICL	[Signature]			[Signature]		
		108						SB-16 15'		ICL	[Signature]			[Signature]		
		109						SB-16 20'		ICL	[Signature]			[Signature]		
		110						SB-16 25'		ICL	[Signature]			[Signature]		
		111						SB-17 1'		ICL	[Signature]			[Signature]		
		112						SB-17 3'		ICL	[Signature]			[Signature]		

CLIENT NAME:	PROJECT NO.:	LAB I.D. NUMBER:	DATE:	TIME:	MATRIX:	COMP:	GRAB:	SAMPLE IDENTIFICATION:	NUMBER OF CONTAINERS:	PRELIMINARY METHOD:	RELINQUISHED BY (Signature):	Date:	Time:	RECEIVED BY (Signature):	Date:	Time:
COG	114600560	229103	7/27		S		X	SB-16 1'	1	NONE	[Signature]	7/27/10	2:30	[Signature]	7/28/10	2:24 PM
		104						SB-16 3'		ICE	[Signature]			[Signature]		
		105						SB-16 5'		HNO3	[Signature]			[Signature]		
		106						SB-16 7'		HCL	[Signature]			[Signature]		
		107						SB-16 10'		ICL	[Signature]			[Signature]		
		108						SB-16 15'		ICL	[Signature]			[Signature]		
		109						SB-16 20'		ICL	[Signature]			[Signature]		
		110						SB-16 25'		ICL	[Signature]			[Signature]		
		111						SB-17 1'		ICL	[Signature]			[Signature]		
		112						SB-17 3'		ICL	[Signature]			[Signature]		

CLIENT NAME:	PROJECT NO.:	LAB I.D. NUMBER:	DATE:	TIME:	MATRIX:	COMP:	GRAB:	SAMPLE IDENTIFICATION:	NUMBER OF CONTAINERS:	PRELIMINARY METHOD:	RELINQUISHED BY (Signature):	Date:	Time:	RECEIVED BY (Signature):	Date:	Time:
COG	114600560	229103	7/27		S		X	SB-16 1'	1	NONE	[Signature]	7/27/10				

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

ANALYSIS REQUEST
Article or Specify Method Name

**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-4560**

SITE MANAGER: Ike T

PROJECT NAME: COG / Pro

PROJECT NAME: COG / Pranghon SUD 8" Line

Lea Co., NM
SAMPLE IDENTIFICATION

CLIENT NAME: C2G		SITE MANAGER: Ike Tavares		PROJECT NAME: C2G / Pranghon SWD 8" Line		PRESERVATIVE METHOD	
PROJECT NO.: 114-6400560	DATE 2010	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS
239113	7/27		S		X	SB-17 5'	1
114						SB-17 7'	1
115						SB-18 1'	1
116						SB-18 3'	1
117						SB-18 5'	1
118						SB-18 7'	1
119						SB-18 10'	1
120						SB-18 15'	1
121						SB-18 20'	1
122						SB-19 1'	1

RELINQUISHED BY: (Signature) _____	Date: <u>7/27/01</u>	Time: <u>2:30</u>	RECEIVED BY: (Signature) _____	Date: <u>7/27/01</u>	Time: <u>2:10 p</u>
RELINQUISHED BY: (Signature) _____	Date: <u>7-28-01</u>	Time: <u>2:30</u>	RECEIVED BY: (Signature) _____	Date: _____	Time: _____
RELINQUISHED BY: (Signature) _____	Date: <u>7/28/01</u>	Time: <u>3:50</u>	RECEIVED BY: (Signature) _____	Date: _____	Time: _____
RECEIVING LABORATORY: _____					
ADDRESS: _____					
CITY: _____ STATE: _____ ZIP: _____					
CONTACT: _____ PHONE: _____ DATE: _____ TIME: _____					

SAMPLE CONDITION WHEN RECEIVED:
3.8°C intact

REMARKS:	
----------	--

if $TPH > 1,000$

mg/kg Run

James Joseph

892

[illegible]

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

Ren BTEX vs (3) Highest TPH

WO #: 10072902

Analysis Request of Chain of Custody Record

ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG		SITE MANAGER: Ike Tavares		PROJECT NAME: COG / Prognostic SWD 8" Line									
LAB I.D. NUMBER	DATE	TIME	PROJECT NO: 114-6400560			PRESERVATIVE METHOD	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	
			MATRIX	COMP	GRAB								
123	7/27												
124													
125													
126													
127													
128													
129													
130													
131													
132													

RELINQUISHED BY: (Signature)	Date: 7/27/10	Time: 3:30	RECEIVED BY: (Signature)	Date: 7/27/10	Time: 2:30pm
RELINQUISHED BY: (Signature)	Date: 7/27/10	Time: 2:30	RECEIVED BY: (Signature)	Date: 7/27/10	Time: 2:30pm
RELINQUISHED BY: (Signature)	Date: 7/27/10	Time: 3:35pm	RECEIVED BY: (Signature)	Date: 7/27/10	Time: 3:35pm

RECEIVING LABORATORY:	STATE:	ZIP:	PHONE:	DATE:	TIME:
CITY:					
CONTACT:					

SAMPLE CONDITION WHEN RECEIVED:		REMARKS:	
3.8% intact		If TPH > 1,000 mg/kg. Run deeper samples	

ANALYSIS REQUEST		SAMPLING BY: (Print & Initial)		Date: 7/27/10	
GC/MS Vol. 8240/8260/824		Kim			
GC/MS Semi. Vol. 8270/825					
PCBs 8080/808					
Pest. 808/808					
Chloride					
Gamma Spec.					
Alpha Beta (Air)					
PLM (Asbestos)					
Major Anions/Cations, PH, TDS					

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

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

Run BTEX on (3) Hardest TPH

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

0560
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	PRONGHORN SWD SYSTEM	Facility Type	SWD - LINE (8 inch valve box tee)

Surface Owner	Federal	Mineral Owner		Lease No.	API# 30-025-32735
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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
J	23	18S	32E					Lea

Latitude 32 43.833 Longitude 103 43.965

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	1160bbls	Volume Recovered	910bbls
Source of Release	8 inch PVC tee in valve box	Date and Hour of Occurrence	06/18/2010	Date and Hour of Discovery	06/18/2010 11:00 a.m.

Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Larry Johnson—OCD Geoffrey Leking—OCD Paul Evans—BLM
--	--

By Whom? Josh Russo	Date and Hour 06/19/2010 1:47 p.m.
---------------------	------------------------------------

Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.
---	---

If a Watercourse was Impacted, Describe Fully.*

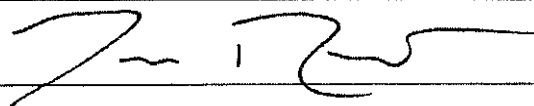
Describe Cause of Problem and Remedial Action Taken.*

An 8 inch PVC tee failed and caused the release. The tee has been replaced and put back into service.

Describe Area Affected and Cleanup Action Taken.*

We had an initial release of 250bbls of produced water along the Pronghorn SWD ROW and we were not able to recover any fluid. The release had a spill area with the dimensions of 400' long and no greater than 40' wide, with slight overspray. While making emergency repairs, we drained the line recovering 910bbls of produced water from the valve box on the south side of the road. The chloride concentration of the produced water in this area is 135,500 mg/l. (The closest well location to this release is the Mewbourne Oil Company, QPBSSU 3-7, NM OCD Order #R-9985, Init 1, 2310 FSL 990 FEL, Sec. 23-T-18S-R32E, Lea county, NM, NMNM88523X). Tetra Tech will sample the spill site area to delineate any possible contamination and we will present a remediation work plan to the BLM/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: 	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:	Attached ☐
Date: 06/22/2010 Phone: 432-212-2399		

* 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

RECEIVED

APR 15 2011

HOBBSUOD

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	Pronghorn SWD System	Facility Type	8" main line (PVC flanges)

Surface Owner	Federal	Mineral Owner		Lease No.	API# 30-025-32735
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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
J	23	18S	32E					Lca

Latitude 32 43.847 Longitude 103 43.959

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	100bbls	Volume Recovered	70bbls
Source of Release	SWD 8" main line (PVC flanges at ball valve)	Date and Hour of Occurrence	07/14/2010	Date and Hour of Discovery	07/14/2010 7:00 a.m.

Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Larry Johnson-OCD Geoffrey Leking-OCD Paul Evans-BLM
-----------------------------	---	------------------	--

By Whom?	Josh Russo	Date and Hour	07/14/2010 3:40 p.m.
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Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
----------------------------	---	---	--

If a Watercourse was Impacted, Describe Fully.*

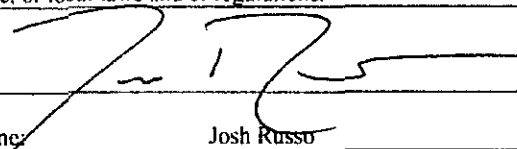
Describe Cause of Problem and Remedial Action Taken.*

The PVC flanges failed on both sides of ball valve. Both flanges and the inoperable ball valve have been removed; dresser sleeves and straight pipe have been installed in its place. The repaired site is under the continual monitoring of night watchmen for at least 4 days as we slowly put the line back into full service.

Describe Area Affected and Cleanup Action Taken.*

Initially 100bbls of produced water was released from the main line. We were able to recover 70bbls with a vacuum truck. All free fluid was recovered. The majority of the fluid remained on the COG ROW (measuring an area in the pasture of 20 yards x 10 yards) with the exception of a 40 yard x 5 yard area on a nearby Mewbourne lease road. The lease road has been returned to its normal condition. The chloride concentration of the produced water in this area is 135,000 mg/l. 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 your 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: 		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:		Attached ☐
Date: 07/16/2010	Phone: 432-212-2399		

SITE INFORMATION

Report Type: Closure Report

General Site Information:

Site:	Pronghorn SWD System					
Company:	COG Operating LLC					
Section, Township and Range	Unit J	Sec 23	T18S	R32E		
Lease Number:	API-30-025-32735					
County:	Lea County					
GPS:	32 43.847° N			103 43.959° W		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	From Maljamar intersection of 82 and CR 126, Go south on 126 for 6.3 miles, turn left (south) stay to right, go 3.1, turn left, go 1.1 miles to location.					

Release Data:

Date Released:	7/14/2010
Type Release:	Produced Water
Source of Contamination:	8" main line
Fluid Released:	100 bbls
Fluids Recovered:	70 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

Acceptable Soil RRAL (mg/kg)

Benzene	Total BTEX	TPH
10	50	5,000



TETRA TECH

March 13, 2012

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

Re: Closure Report for the COG Operating LLC., Pronghorn SWD System Line Leak, Unit J, Section 23, Township 18 South, Range 32 East, Lea County, New Mexico.

Mr.: Leking

Tetra Tech Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill at the Pronghorn SWD Line Leak located in Unit J, Section 23, Township 18 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32° 43.833', W 103° 43.965'. The site location is shown on Figures 1 and 2.

Background

June 18, 2010

According to the State of New Mexico C-141 Initial Report, the leak occurred on the main SWD line (PVC) at the valve box when the 8" PVC tee failed releasing approximately 1,160 barrels of produced water. A total of 910 barrels of standing fluid were recovered using a vacuum truck. The line was repaired and placed back into service. The spill migrated southwest in the pasture approximately 500' and majority of the fluids remained on the COG right-a way. The initial C-141 is included in Appendix A.

July 14, 2010

According to the State of New Mexico C-141 Initial Report, the second leak occurred on the main SWD line at the valve box. The PVC flange at the ball valve failed and released approximately 100 barrels of produced water. A total of 70 barrels of standing fluid were recovered for the site. The line was repaired and placed back into service. The spill remained on the COG right-a way, top of

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com



the first spill foot print. COG immediately excavated the hydrocarbon impact along the right-a-way to a depth of 2.0' below surface and hauled the soil to proper disposal. The initial C-141 is included in Appendix A.

Groundwater

The United States Geological Survey (USGS) database did showed wells in Section 7 and 16, Township 18 South, Range 32 East, with a reported depth to water of approximately 82' and 84', respectively. The New Mexico State Engineer Well Reports showed wells with reported depths of 65' (Section 4) and 460' (Section 7). The NMOCD groundwater map shows also shows wells in Section 20, 22 and 34, with groundwater depths at approximately 164', 429' and 117', respectively. Based on the groundwater map, the depth to groundwater for the Site appears to be greater than 100' bgs. The well reports and average depth to water map are 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 Results

The produced water impacted an area southeast of the valve box. The foot print of the spill measured approximately 500' in length and a width of 75' to 200'. Majority of the spill migrated along and eastside of the SWD line. Recently, COG has installed a new SWD line (poly line) to replace the old SWD (PVC) line. The new line was installed west of the old SWD line, approximately 10' to 15'. Prior installation of the line, the area of SB-20 was excavated down to 4.0' below surface and hauled the soil to proper disposal. The excavated area measured approximately 40' x 60'. Prior to installation of the new SWD line, the bottom of the excavation was lined with a 40 mil liner.



Soil Borings

From July 21 through July 27, 2010, Tetra Tech personnel supervised the installation of twenty-one (21) soil borings (SB-1 through SB-21) utilizing an air rotary rig. The soil borings were extended to a maximum depth of 40 feet bgs, with samples collected at 2 to 3 foot intervals for the first 10 feet and 5 foot intervals to 30' and 10' intervals thereafter. 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 soil boring locations are shown on Figure 3.

Referring to Table 1, none of the selected for TPH and BTEX exceeded the RRAL. Soil borings (SB-9, SB-10, SB-17 and SB-19) did not show a chloride impact to the soils. The analytical results indicate the maximum extent of chloride impact greater than 1,000 mg/kg extended from 7' (SB-1, SB-2 and SB-20), 10' (SB-5, SB-12, SB-13, SB-14 and SB-18), 15' (SB-3, SB-4, SB-7, SB-8 and SB-11) and 20' (SB-6). All samples had chloride concentrations that decreased with depth and vertically defined.

Soil borings (SB-15, SB-16 and SB-21) did not show a significant impact from surface to approximately 5'-10' bgs. The soil borings showed chloride greater than 1,000 mg/kg from 10' to 15' bgs, 5' to 7' and at 5' and 15', respectively.

Based on the data, Figures 5 and 6 (Cross-Sections A-A' and B-B') were developed to evaluate distribution of the chloride impact in the subsurface soils. As shown in the A-A' Cross Section, the elevated chloride concentrations ranged from 5,000 to >10,000 mg/kg at depths from approximately 5' to 15' below surface and declines significantly with depth. The deepest chloride impact was encountered in the areas of SB-6, SB-7 and SB-4 at depths declining at 15' to 20' below surface. Referring to B-B' Cross Section, the perimeter soil borings data showed elevated chloride concentrations in the areas of SB-11, SB-12 and SB-13 at depths ranging from approximately 5.0' to 10.0' below surface.

Remedial Work and Closure Request

On April 5, 2011, Tetra Tech and COG met with Geoffrey Leking with NMOCD to discuss and review the results of the investigation. Based on groundwater depth and results, Mr. Leking approved the removal of 5.0' of the impacted soil and capping the remaining impact with a 40 mil liner.



TETRA TECH

Tetra Tech personnel supervised the excavation of the site from April 12 through April 18, 2011. The excavation depth and liner installation are highlighted in Table 1 and shown on Figures 5 (A-A'), 6 (B-B') and Figure 7. The final depth of the soil remediation for the entire spill met or exceeded the depths of the approved work plan. During the excavation, Tetra Tech field screen the soil (chlorides) to capture the spill foot print (horizontal extents) of the spill.

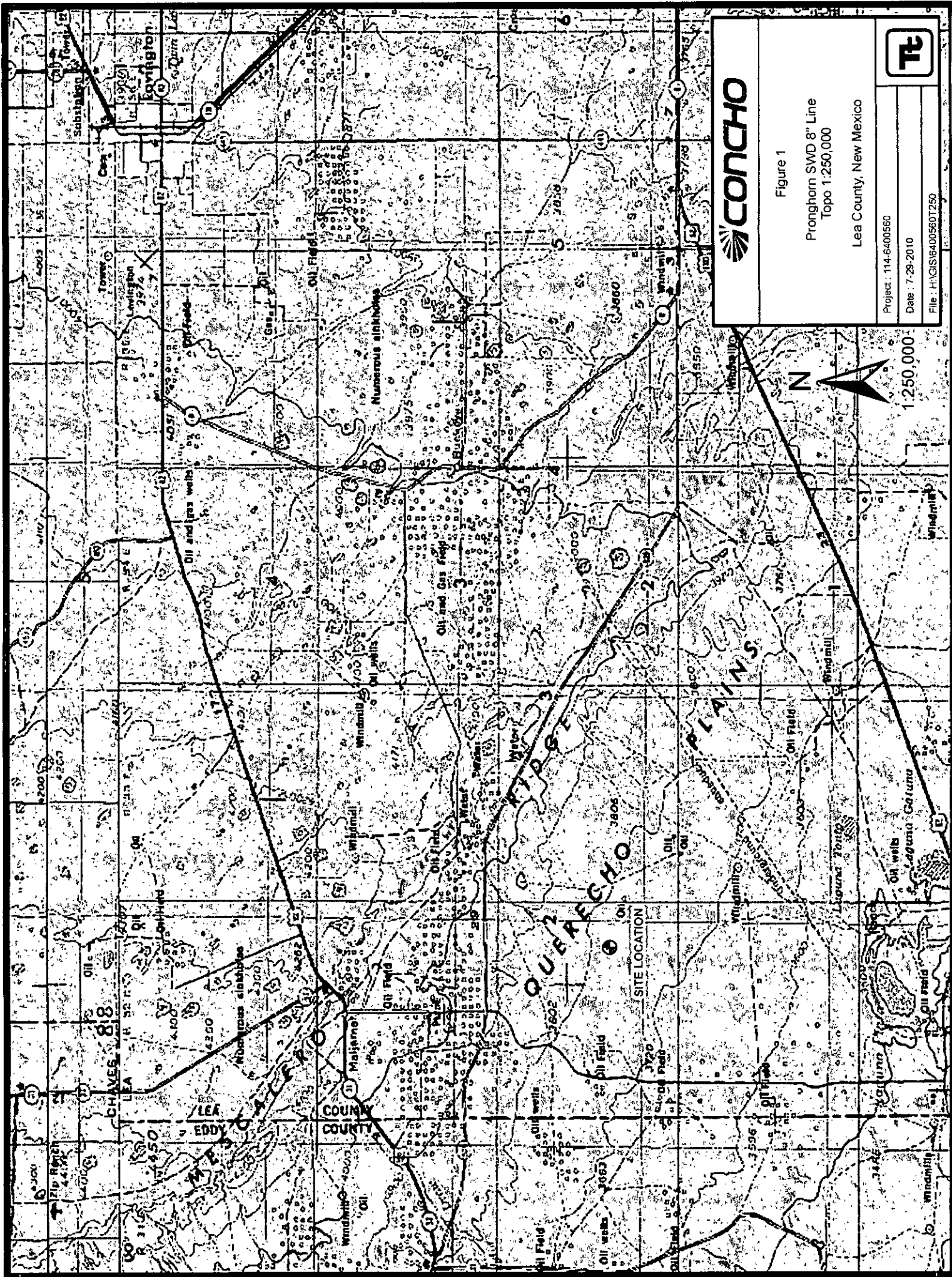
Approximately 3,760 yards³ were removed and hauled to CRI Inc. for proper disposal. Photos of the excavation are attached. Once final depths were reached, five random sidewall confirmation samples (CS-1 through CS-5) were collected along the east edge of the excavation and submitted for laboratory analysis. The results of the confirmation sampling are summarized on Table 2. Referring to Table 2, all confirmation samples had chloride concentrations of <200 mg/kg.

Once excavated, the site was backfilled with clean material. Copies of the C-141's (Final) are included in Appendix A. Based on the remedial activities performed at this site, COG requests closure of this site. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavaréz
Project Manager

cc: Pat Ellis - COG
Paul Evans - BLM
Jim Amos - BLM



CONCHO

Figure 1

Pronghorn SWD 8th Line
Topo 1:250,000

Lea County, New Mexico

Project : 114-6400560

Date : 7-29-2010

File : H:\GIS\6400560\7250



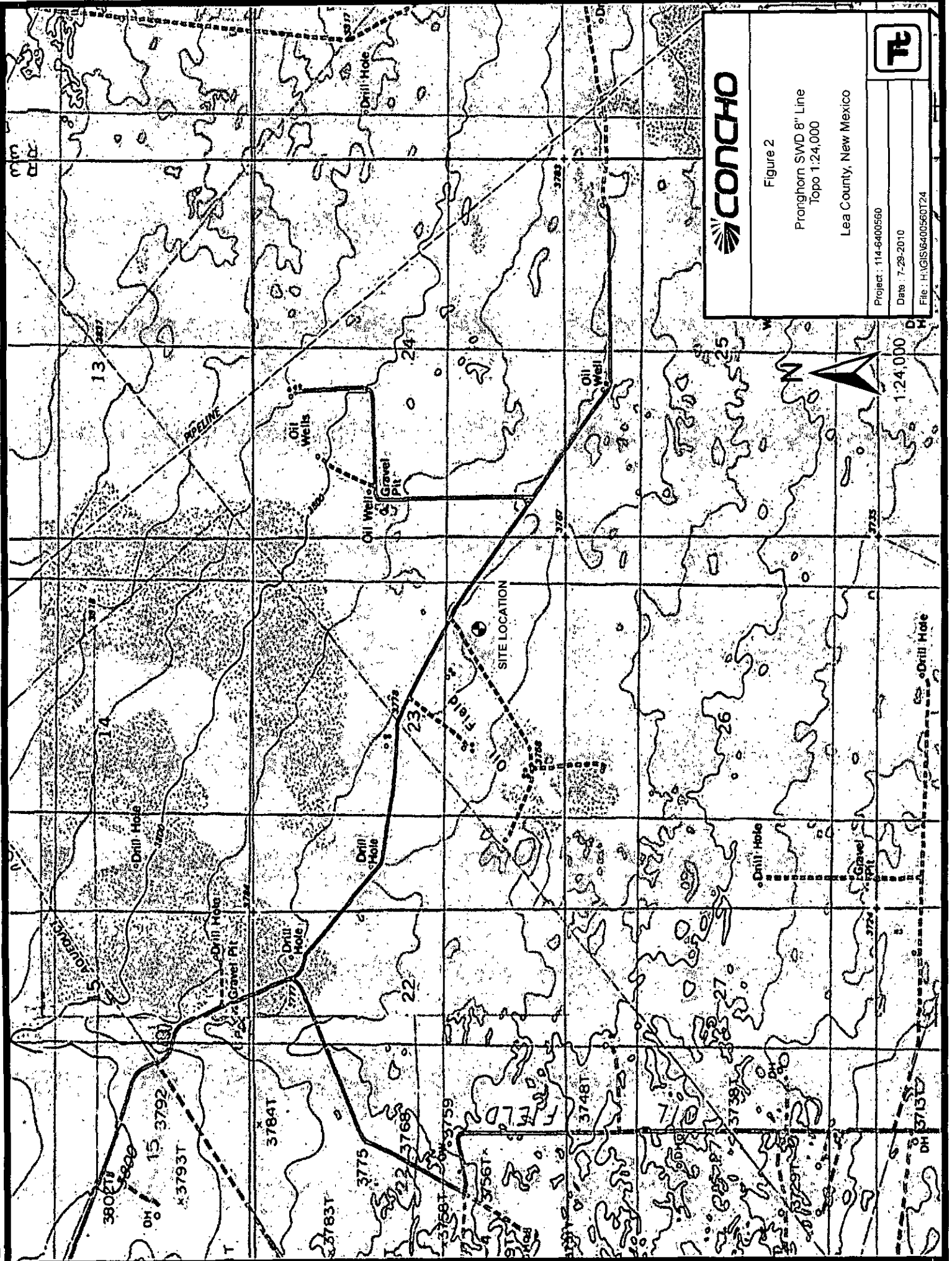


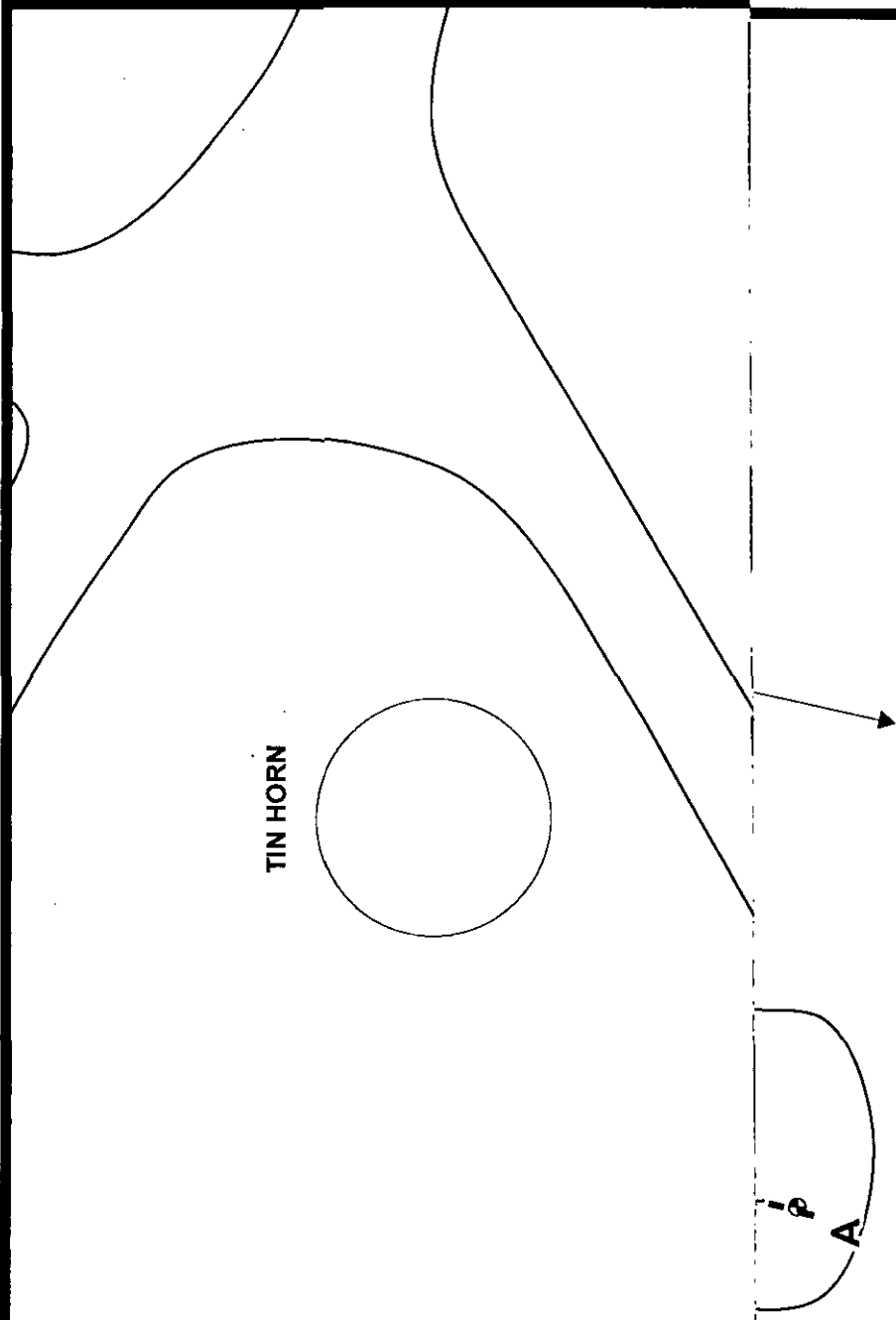


Figure 2
Pronghorn SWD 8" Line
Topo 1:24,000
Lea County, New Mexico

Project: 114-6400560
Date: 7-29-2010
File: H:\GIS\6400560\T24

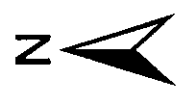


1:24,000



TIN HORN

Explanation	
---	A-A' Analytical Cross Section
---	B-B' Analytical Cross Section
●	Soil Boring Installation
▨	2' Below Excavated Bottom
▩	Source (Valve Box)



1:700

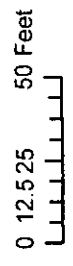
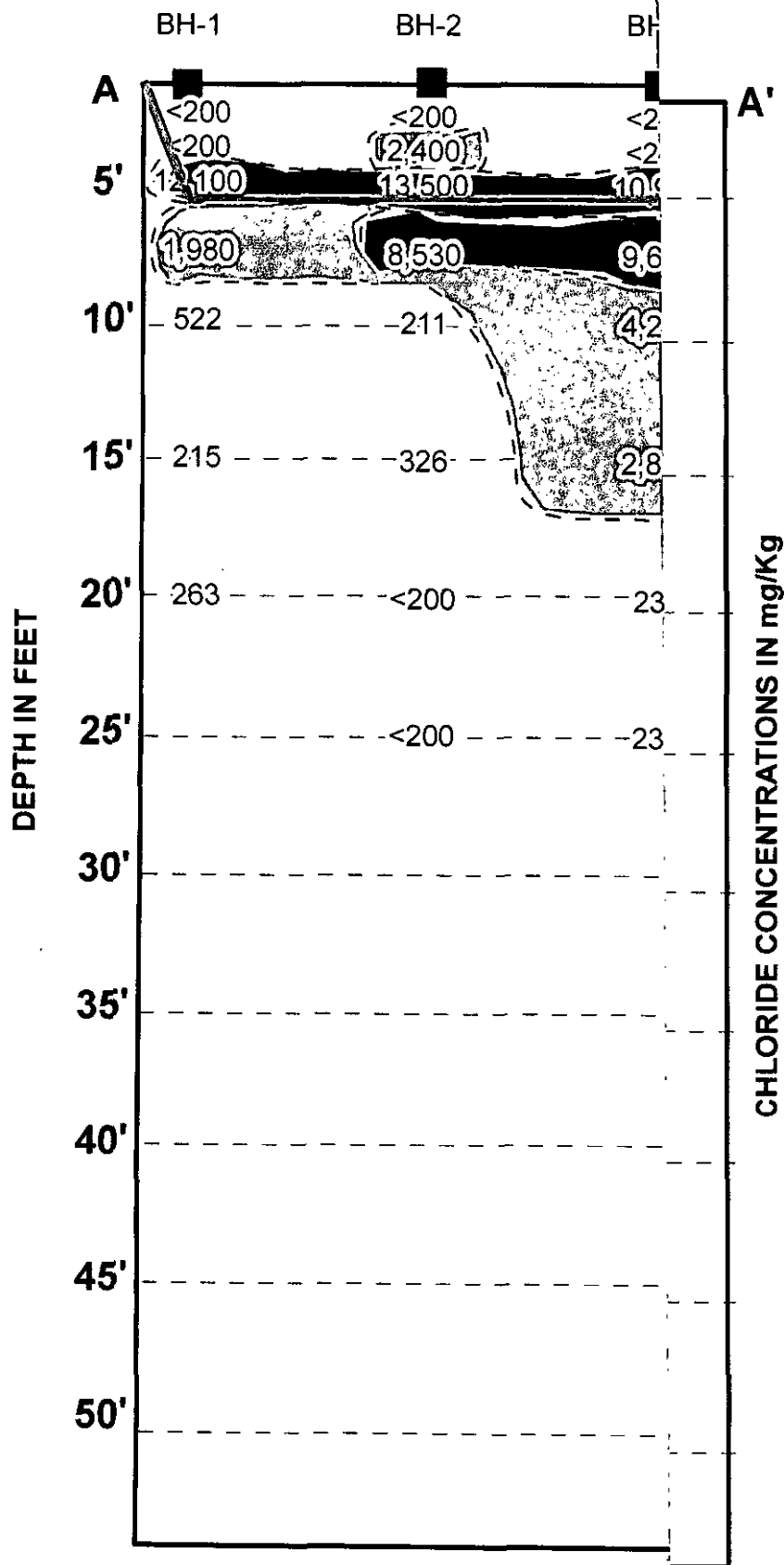


Figure 4 Pronghorn SWD 8" Line Site Map with A-A' & B-B' Lea County, New Mexico	
Project : 114-6400560	
Date : 7-29-2010	
File : H:\GIS\6400560.DWG	



EXPLANATION

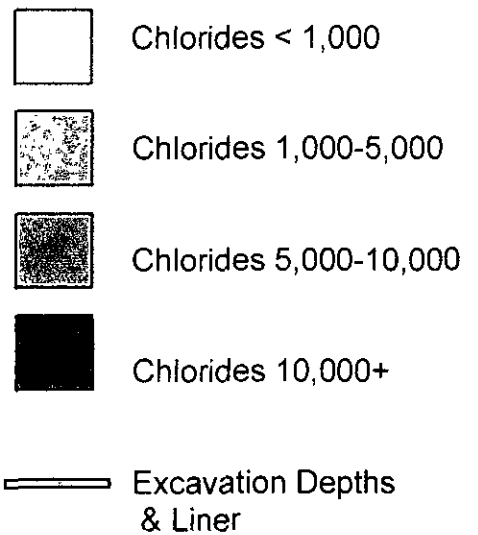


Figure 5
Pronghorn SWD 8" Line
A to A' Analytical Cross Section

Lea County, New Mexico

PROJECT : 114-6400560

DATE : 10-27-2010

FILE : H:\GIS\114-6400560



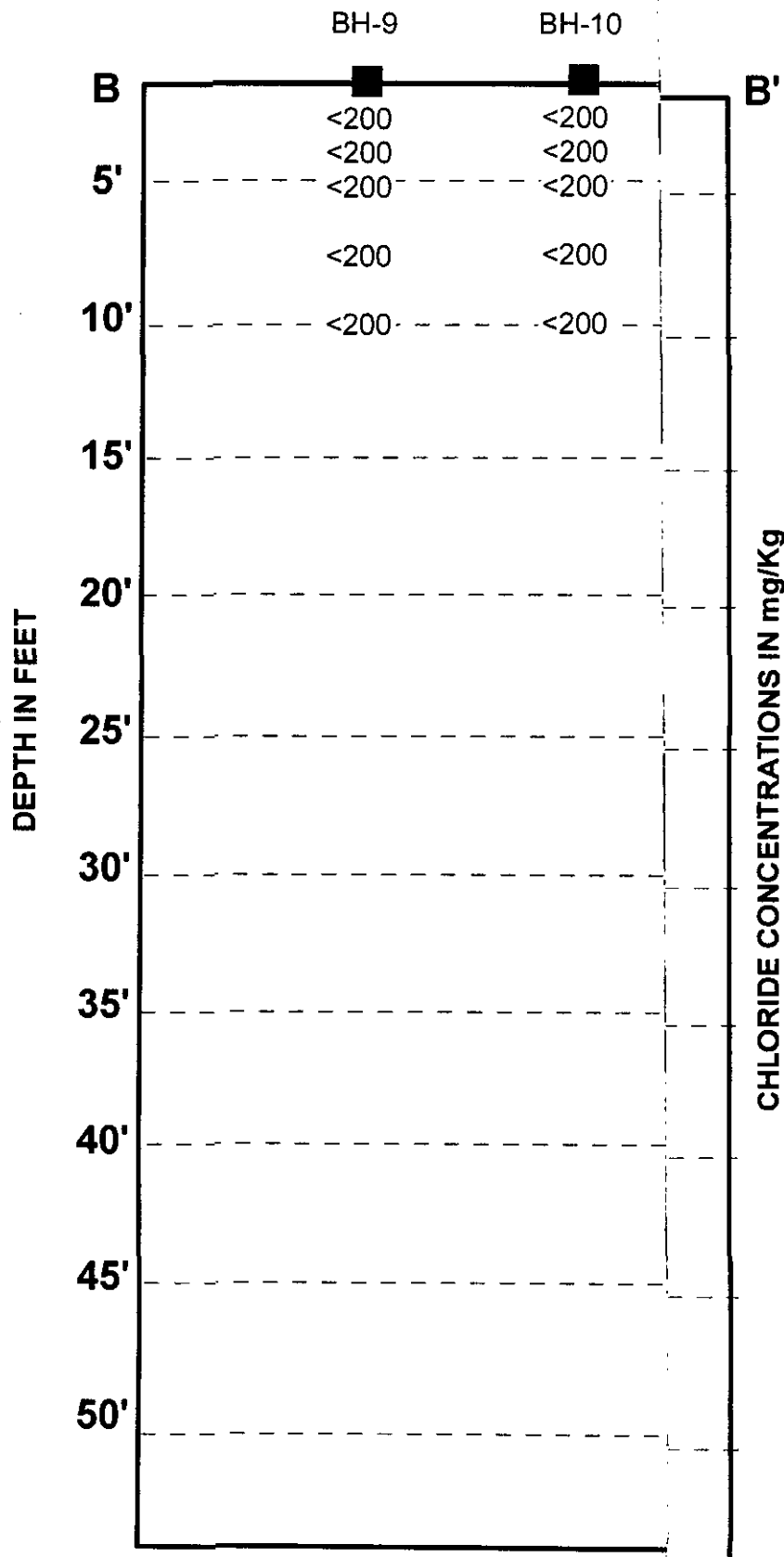


Figure 6
Pronghorn SWD 8" Line
B to B' Analytical Cross Section

Lea County, New Mexico

PROJECT :114-6400560

DATE : 10-27-2010

FILE : H:\GIS\114-6400560



TIN HORN

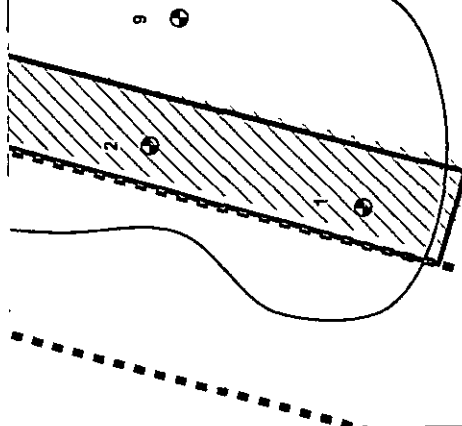


	
Figure 7 Pronghorn SWD 8" Line Excavation Area & Liner Installation Lea County, New Mexico	
Project : 114-6400560	Date : 7-29-2010
File : H:\GIS\6400560DWG	

Explanation	
---	COG Old Line
---	COG New Line
[Outline]	Liner Installation
[Hatched]	Excavated Area
[Circle with cross]	Soil Boring Installation
[Diagonal lines]	2' Below Excavated Bottom
[Cross-hatched]	Source (Valve Box)

Table 1

COG Operating LLC.

Pronghorn SWD 8" Line (0560)

LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-1	7/21/2010	1'			X	<2.00	<50.0	<50.0	0.0396	<0.0200	<0.0200	<0.0200	<200
		3'			X	-	-	-	-	-	-	-	<200
		5'			X	-	-	-	-	-	-	-	12,100
		7'		X		-	-	-	-	-	-	-	1,980
		10'		X		-	-	-	-	-	-	-	522
		15'		X		-	-	-	-	-	-	-	215
		20'		X		-	-	-	-	-	-	-	263
SB-2	7/21/2010	1'			X	<2.00	<50.0	<50.0	0.0236	<0.0200	<0.0200	<0.0200	<200
		3'			X	-	-	-	-	-	-	-	2,400
		5'			X	-	-	-	-	-	-	-	13,500
		7'		X		-	-	-	-	-	-	-	8,530
		10'		X		-	-	-	-	-	-	-	211
		15'		X		-	-	-	-	-	-	-	326
		20'		X		-	-	-	-	-	-	-	<200
		25'		X		-	-	-	-	-	-	-	<200
SB-3	7/22/2010	1'			X	<2.00	<50.0	<50.0	0.0277	<0.0200	<0.0200	<0.0200	<200
		3'			X	-	-	-	-	-	-	-	<200
		5'			X	-	-	-	-	-	-	-	10,900
		7'		X		-	-	-	-	-	-	-	9,660
		10'		X		-	-	-	-	-	-	-	4,200
		15'		X		-	-	-	-	-	-	-	2,890
		20'		X		-	-	-	-	-	-	-	238
		25'		X		-	-	-	-	-	-	-	238

Table 1

COG Operating LLC.
Pronghorn SWD 8" Line (0560)
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-4	7/22/2010	1'			X	<2.00	<50.0	<50.0	0.0266	<0.0200	<0.0200	<0.0200	<200
		3'			X	-	-	-	-	-	-	-	219
		5'			X	-	-	-	-	-	-	-	10,300
		7'		X		-	-	-	-	-	-	-	12,900
		10'		X		-	-	-	-	-	-	-	10,100
		15'		X		-	-	-	-	-	-	-	1,180
		20'		X		-	-	-	-	-	-	-	<200
SB-5	7/22/2010	1'	2'		X	6.65	<50.0	6.65	0.0415	<0.0200	<0.0200	0.0923	637
		3'	2'		X	-	-	-	-	-	-	-	6,440
		5'	2'		X	-	-	-	-	-	-	-	8,590
		7'	2'	X		-	-	-	-	-	-	-	3,940
		10'	2'	X		-	-	-	-	-	-	-	1,450
		15'	2'	X		-	-	-	-	-	-	-	653
		20'	2'	X		-	-	-	-	-	-	-	334
		25'	2'	X		-	-	-	-	-	-	-	<200
		30'	2'	X		-	-	-	-	-	-	-	<200
SB-6	7/22/2010	1'	2'		X	<2.00	<50.0	<50.0	0.0387	<0.0200	<0.0200	<0.0200	10,200
		3'	2'		X	-	-	-	-	-	-	-	10,200
		5'	2'		X	-	-	-	-	-	-	-	9,200
		7'	2'	X		-	-	-	-	-	-	-	11,100
		10'	2'	X		-	-	-	-	-	-	-	8,650
		15'	2'	X		-	-	-	-	-	-	-	8,250
		20'	2'	X		-	-	-	-	-	-	-	1,140
		25'	2'	X		-	-	-	-	-	-	-	659
		30'	2'	X		-	-	-	-	-	-	-	516
		40'	2'	X		-	-	-	-	-	-	-	234

Table 1
COG Operating LLC.
Pronghorn SWD 8" Line (0560)
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-16	7/27/2010	1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	1,820
		7'		X		-	-	-	-	-	-	-	1,050
		10'		X		-	-	-	-	-	-	-	889
		15'		X		-	-	-	-	-	-	-	645
		20'		X		-	-	-	-	-	-	-	244
		25'		X		-	-	-	-	-	-	-	234
SB-17	7/27/2010	1'		X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	225
		7'		X		-	-	-	-	-	-	-	<200
SB-18	7/27/2010	1'			X	<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	203
		3'			X	-	-	-	-	-	-	-	279
		5'			X	-	-	-	-	-	-	-	7,710
		7'		X		-	-	-	-	-	-	-	7,840
		10'		X		-	-	-	-	-	-	-	5,750
		15'		X		-	-	-	-	-	-	-	889
		20'		X		-	-	-	-	-	-	-	440
		25'		X		-	-	-	-	-	-	-	301

Table 1
COG Operating LLC.
Pronghorn SWD 8" Line (0560)
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
SB-19	7/27/2010	1'		X		<2.00	<50.0	<50.0					<200
		3'		X		-	-	-	-	-	-	-	<200
		5'		X		-	-	-	-	-	-	-	<200
		7'		X		-	-	-	-	-	-	-	<200
		10'		X		-	-	-	-	-	-	-	<200
SB-20	7/27/2010	1'			X	<2.00	<50.0	<50.0					<200
		3'			X	-	-	-	-	-	-	-	204
		5'			X	-	-	-	-	-	-	-	2,390
		7'		X		-	-	-	-	-	-	-	8,720
		10'		X		-	-	-	-	-	-	-	417
		15'		X		-	-	-	-	-	-	-	394
SB-21	7/27/2010	1'		X		<2.00	<50.0	<50.0					<200
		3'		X		-	-	-	-	-	-	-	292
		5'		X		-	-	-	-	-	-	-	1,470
		7'		X		-	-	-	-	-	-	-	376
		10'		X		-	-	-	-	-	-	-	728
		15'		X		-	-	-	-	-	-	-	1,620
		20'		X		-	-	-	-	-	-	-	427
		25'		X		-	-	-	-	-	-	-	269

BEB ☐ Liner Installation
 Below Excavation Bottom
 (-) ☐ Not Analyzed
 Excavated material ☐

Table 2
COG Operating LLC.
Pronghorn SWD 8" Line
LEA 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)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
CS-1	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-2	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-3	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-4	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-5	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200

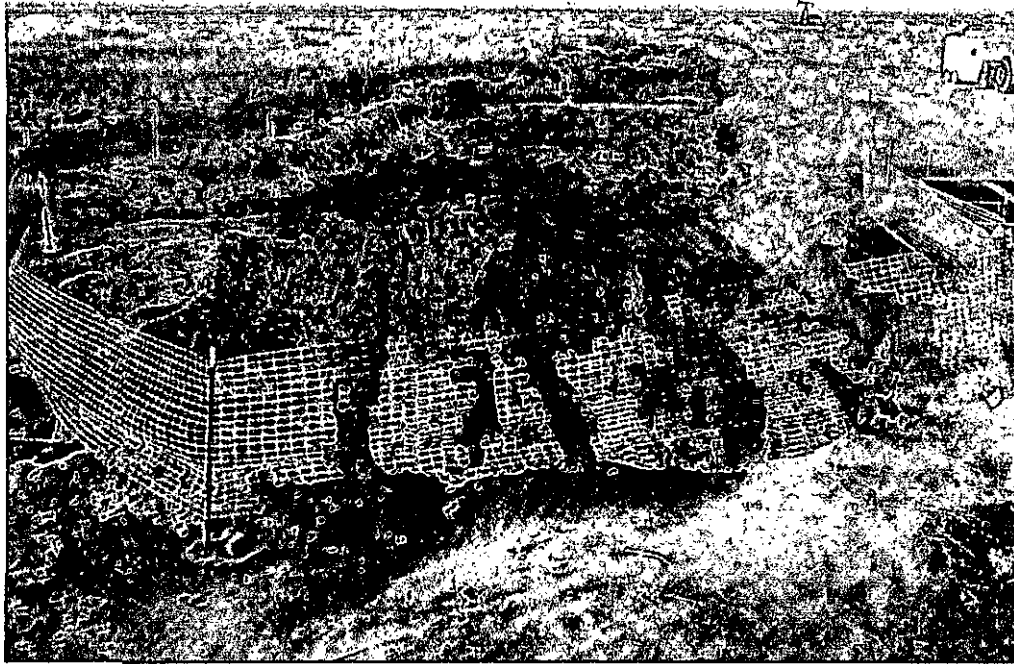
Table 2
COG Operating LLC.
Pronghorn SWD 8" Line
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Depth (BEB)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
CS-1	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-2	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-3	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-4	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200
CS-5	4/18/2010	0-1'		X		-	-	0	-	-	-	-	<200

COG Operating LLC
Pronghorn SWD System
Lea County, New Mexico



TETRA TECH



View South – Spill Excavation

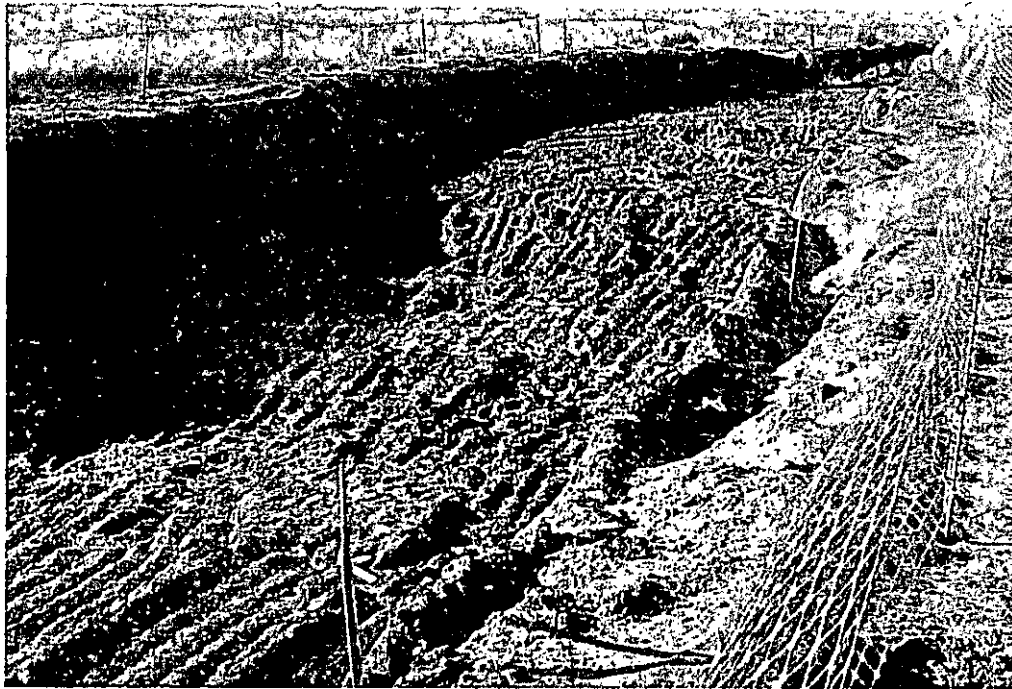


View North – Spill Excavation

COG Operating LLC
Pronghorn SWD System
Lea County, New Mexico



TETRA TECH



View of Excavation



View of Liner installation

COG Operating LLC
Pronghorn SWD System
Lea County, New Mexico



TETRA TECH



View of Liner Installation



View of Liner installation

Water Well Data
Average Depth to Groundwater (ft)
COG - Pronghorn SWD System
Lea County, New Mexico

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
			271		SITE

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
				261	

19 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
		180			130

17 South			32 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			32 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

19 South			32 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			33 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			33 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

19 South			33 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

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data

Summary Report

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

Report Date: August 9, 2010

Work Order: 10072902



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239103	SB-16 1'	soil	2010-07-27	00:00	2010-07-28
239104	SB-16 3'	soil	2010-07-27	00:00	2010-07-28
239105	SB-16 5'	soil	2010-07-27	00:00	2010-07-28
239106	SB-16 7'	soil	2010-07-27	00:00	2010-07-28
239107	SB-16 10'	soil	2010-07-27	00:00	2010-07-28
239108	SB-16 15'	soil	2010-07-27	00:00	2010-07-28
239109	SB-16 20'	soil	2010-07-27	00:00	2010-07-28
239110	SB-16 25'	soil	2010-07-27	00:00	2010-07-28
239111	SB-17 1'	soil	2010-07-27	00:00	2010-07-28
239112	SB-17 3'	soil	2010-07-27	00:00	2010-07-28
239113	SB-17 5'	soil	2010-07-27	00:00	2010-07-28
239114	SB-17 7'	soil	2010-07-27	00:00	2010-07-28
239115	SB-18 1'	soil	2010-07-27	00:00	2010-07-28
239116	SB-18 3'	soil	2010-07-27	00:00	2010-07-28
239117	SB-18 5'	soil	2010-07-27	00:00	2010-07-28
239118	SB-18 7'	soil	2010-07-27	00:00	2010-07-28
239119	SB-18 10'	soil	2010-07-27	00:00	2010-07-28
239120	SB-18 15'	soil	2010-07-27	00:00	2010-07-28
239121	SB-18 20'	soil	2010-07-27	00:00	2010-07-28
239122	SB-19 1'	soil	2010-07-27	00:00	2010-07-28
239123	SB-19 3'	soil	2010-07-27	00:00	2010-07-28
239124	SB-19 5'	soil	2010-07-27	00:00	2010-07-28
239125	SB-19 7'	soil	2010-07-27	00:00	2010-07-28
239126	SB-19 10'	soil	2010-07-27	00:00	2010-07-28
239127	SB-20 1'	soil	2010-07-27	00:00	2010-07-28
239128	SB-20 3'	soil	2010-07-27	00:00	2010-07-28
239129	SB-20 5'	soil	2010-07-27	00:00	2010-07-28
239130	SB-20 7'	soil	2010-07-27	00:00	2010-07-28
239131	SB-20 10'	soil	2010-07-27	00:00	2010-07-28
239132	SB-20 15'	soil	2010-07-27	00:00	2010-07-28

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239133	SB-21 1'	soil	2010-07-27	00:00	2010-07-28
239134	SB-21 3'	soil	2010-07-27	00:00	2010-07-28
239135	SB-21 5'	soil	2010-07-27	00:00	2010-07-28
239136	SB-21 7'	soil	2010-07-27	00:00	2010-07-28
239137	SB-21 10'	soil	2010-07-27	00:00	2010-07-28
239138	SB-21 15'	soil	2010-07-27	00:00	2010-07-28
239139	SB-21 20'	soil	2010-07-27	00:00	2010-07-28
239140	SB-21 25'	soil	2010-07-27	00:00	2010-07-28
239141	SB-18 25'	soil	2010-07-27	00:00	2010-07-28

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)
239103 - SB-16 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
239111 - SB-17 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
239115 - SB-18 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
239122 - SB-19 1'					<50.0	<2.00
239127 - SB-20 1'					<50.0	<2.00
239133 - SB-21 1'					<50.0	<2.00

Sample: 239103 - SB-16 1'

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

Sample: 239104 - SB-16 3'

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

Sample: 239105 - SB-16 5'

Param	Flag	Result	Units	RL
Chloride		1820	mg/Kg	4.00

Sample: 239106 - SB-16 7'

Param	Flag	Result	Units	RL
Chloride		1050	mg/Kg	4.00

Sample: 239107 - SB-16 10'

Param	Flag	Result	Units	RL
Chloride		889	mg/Kg	4.00

Sample: 239108 - SB-16 15'

Param	Flag	Result	Units	RL
Chloride		645	mg/Kg	4.00

Sample: 239109 - SB-16 20'

Param	Flag	Result	Units	RL
Chloride		244	mg/Kg	4.00

Sample: 239110 - SB-16 25'

Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00

Sample: 239111 - SB-17 1'

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

Sample: 239112 - SB-17 3'

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

Sample: 239113 - SB-17 5'

Param	Flag	Result	Units	RL
Chloride		225	mg/Kg	4.00

Sample: 239114 - SB-17 7'

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

Sample: 239115 - SB-18 1'

Param	Flag	Result	Units	RL
Chloride		203	mg/Kg	4.00

Sample: 239116 - SB-18 3'

Param	Flag	Result	Units	RL
Chloride		279	mg/Kg	4.00

Sample: 239117 - SB-18 5'

Param	Flag	Result	Units	RL
Chloride		7710	mg/Kg	4.00

Sample: 239118 - SB-18 7'

Param	Flag	Result	Units	RL
Chloride		7840	mg/Kg	4.00

Sample: 239119 - SB-18 10'

Param	Flag	Result	Units	RL
Chloride		5750	mg/Kg	4.00

Sample: 239120 - SB-18 15'

Param	Flag	Result	Units	RL
Chloride		889	mg/Kg	4.00

Sample: 239121 - SB-18 20'

Param	Flag	Result	Units	RL
Chloride		440	mg/Kg	4.00

Sample: 239122 - SB-19 1'

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

Sample: 239123 - SB-19 3'

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

Sample: 239124 - SB-19 5'

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

Sample: 239125 - SB-19 7'

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

Sample: 239126 - SB-19 10'

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

Sample: 239127 - SB-20 1'

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

Sample: 239128 - SB-20 3'

Param	Flag	Result	Units	RL
Chloride		204	mg/Kg	4.00

Sample: 239129 - SB-20 5'

Param	Flag	Result	Units	RL
Chloride		3290	mg/Kg	4.00

Sample: 239130 - SB-20 7'

Param	Flag	Result	Units	RL
Chloride		8720	mg/Kg	4.00

Sample: 239131 - SB-20 10'

Param	Flag	Result	Units	RL
Chloride		417	mg/Kg	4.00

Sample: 239132 - SB-20 15'

Param	Flag	Result	Units	RL
Chloride		394	mg/Kg	4.00

Sample: 239133 - SB-21 1'

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

Sample: 239134 - SB-21 3'

Param	Flag	Result	Units	RL
Chloride		292	mg/Kg	4.00

Sample: 239135 - SB-21 5'

Param	Flag	Result	Units	RL
Chloride		1470	mg/Kg	4.00

Sample: 239136 - SB-21 7'

Param	Flag	Result	Units	RL
Chloride		376	mg/Kg	4.00

Sample: 239137 - SB-21 10'

Param	Flag	Result	Units	RL
Chloride		728	mg/Kg	4.00

Sample: 239138 - SB-21 15'

Param	Flag	Result	Units	RL
Chloride		1620	mg/Kg	4.00

Sample: 239139 - SB-21 20'

Param	Flag	Result	Units	RL
Chloride		427	mg/Kg	4.00

Sample: 239140 - SB-21 25'

Param	Flag	Result	Units	RL
Chloride		269	mg/Kg	4.00

Sample: 239141 - SB-18 25'

Param	Flag	Result	Units	RL
Chloride		301	mg/Kg	4.00



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: latv@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 9, 2010

Work Order: 10072902



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239103	SB-16 1'	soil	2010-07-27	00:00	2010-07-28
239104	SB-16 3'	soil	2010-07-27	00:00	2010-07-28
239105	SB-16 5'	soil	2010-07-27	00:00	2010-07-28
239106	SB-16 7'	soil	2010-07-27	00:00	2010-07-28
239107	SB-16 10'	soil	2010-07-27	00:00	2010-07-28
239108	SB-16 15'	soil	2010-07-27	00:00	2010-07-28
239109	SB-16 20'	soil	2010-07-27	00:00	2010-07-28
239110	SB-16 25'	soil	2010-07-27	00:00	2010-07-28
239111	SB-17 1'	soil	2010-07-27	00:00	2010-07-28
239112	SB-17 3'	soil	2010-07-27	00:00	2010-07-28

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
239113	SB-17 5'	soil	2010-07-27	00:00	2010-07-28
239114	SB-17 7'	soil	2010-07-27	00:00	2010-07-28
239115	SB-18 1'	soil	2010-07-27	00:00	2010-07-28
239116	SB-18 3'	soil	2010-07-27	00:00	2010-07-28
239117	SB-18 5'	soil	2010-07-27	00:00	2010-07-28
239118	SB-18 7'	soil	2010-07-27	00:00	2010-07-28
239119	SB-18 10'	soil	2010-07-27	00:00	2010-07-28
239120	SB-18 15'	soil	2010-07-27	00:00	2010-07-28
239121	SB-18 20'	soil	2010-07-27	00:00	2010-07-28
239122	SB-19 1'	soil	2010-07-27	00:00	2010-07-28
239123	SB-19 3'	soil	2010-07-27	00:00	2010-07-28
239124	SB-19 5'	soil	2010-07-27	00:00	2010-07-28
239125	SB-19 7'	soil	2010-07-27	00:00	2010-07-28
239126	SB-19 10'	soil	2010-07-27	00:00	2010-07-28
239127	SB-20 1'	soil	2010-07-27	00:00	2010-07-28
239128	SB-20 3'	soil	2010-07-27	00:00	2010-07-28
239129	SB-20 5'	soil	2010-07-27	00:00	2010-07-28
239130	SB-20 7'	soil	2010-07-27	00:00	2010-07-28
239131	SB-20 10'	soil	2010-07-27	00:00	2010-07-28
239132	SB-20 15'	soil	2010-07-27	00:00	2010-07-28
239133	SB-21 1'	soil	2010-07-27	00:00	2010-07-28
239134	SB-21 3'	soil	2010-07-27	00:00	2010-07-28
239135	SB-21 5'	soil	2010-07-27	00:00	2010-07-28
239136	SB-21 7'	soil	2010-07-27	00:00	2010-07-28
239137	SB-21 10'	soil	2010-07-27	00:00	2010-07-28
239138	SB-21 15'	soil	2010-07-27	00:00	2010-07-28
239139	SB-21 20'	soil	2010-07-27	00:00	2010-07-28
239140	SB-21 25'	soil	2010-07-27	00:00	2010-07-28
239141	SB-18 25'	soil	2010-07-27	00:00	2010-07-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 31 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project COG/Pronghorn SWD 8 in. Line were received by TraceAnalysis, Inc. on 2010-07-28 and assigned to work order 10072902. Samples for work order 10072902 were received intact at a temperature of 3.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	61861	2010-07-29 at 10:44	72339	2010-07-29 at 10:17
Chloride (Titration)	SM 4500-Cl B	61966	2010-08-03 at 09:10	72326	2010-08-04 at 11:36
Chloride (Titration)	SM 4500-Cl B	61967	2010-08-03 at 12:10	72341	2010-08-04 at 15:03
Chloride (Titration)	SM 4500-Cl B	61969	2010-08-03 at 12:11	72342	2010-08-04 at 15:04
Chloride (Titration)	SM 4500-Cl B	61970	2010-08-03 at 12:11	72416	2010-08-06 at 15:22
Chloride (Titration)	SM 4500-Cl B	62027	2010-08-05 at 10:26	72417	2010-08-06 at 15:22
TPH DRO - NEW	S 8015 D	61846	2010-07-29 at 09:53	72158	2010-07-29 at 09:53
TPH GRO	S 8015 D	61861	2010-07-29 at 10:44	72182	2010-07-29 at 10:44

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10072902 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: August 9, 2010
114-6400560

Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

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Lea County, NM

Analytical Report

Sample: 239103 - SB-16 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72339
Prep Batch: 61861

Analytical Method: S 8021B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.62	mg/Kg	1	2.00	81	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	1	2.00	78	38.4 - 157

Sample: 239103 - SB-16 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72326
Prep Batch: 61966

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239103 - SB-16 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72158
Prep Batch: 61846

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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114-6400560

Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		98.2	mg/Kg	1	100	98	70 - 130

Sample: 239103 - SB-16 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.69	mg/Kg	1	2.00	84	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.55	mg/Kg	1	2.00	78	42 - 159

Sample: 239104 - SB-16 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72326
Prep Batch: 61966

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239105 - SB-16 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72341
Prep Batch: 61967

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1820	mg/Kg	100	4.00

Report Date: August 9, 2010
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Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

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Sample: 239106 - SB-16 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1050	mg/Kg	100	4.00

Sample: 239107 - SB-16 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		889	mg/Kg	100	4.00

Sample: 239108 - SB-16 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		645	mg/Kg	50	4.00

Sample: 239109 - SB-16 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		244	mg/Kg	50	4.00

Report Date: August 9, 2010
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Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

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Lea County, NM

Sample: 239110 - SB-16 25'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72341
Prep Batch: 61967

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		234	mg/Kg	50	4.00

Sample: 239111 - SB-17 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72339
Prep Batch: 61861

Analytical Method: S 8021B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.59	mg/Kg	1	2.00	80	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.52	mg/Kg	1	2.00	76	38.4 - 157

Sample: 239111 - SB-17 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72341
Prep Batch: 61967

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Report Date: August 9, 2010
114-6400560

Work Order: 10072902
COG/Pronghorn SWD 8 in. Line

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Sample: 239111 - SB-17 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-29	Analyzed By:	kg
QC Batch:	72158	Sample Preparation:	2010-07-29	Prepared By:	kg
Prep Batch:	61846				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.1	mg/Kg	1	100	95	70 - 130

Sample: 239111 - SB-17 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	1	2.00	82	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.51	mg/Kg	1	2.00	76	42 - 159

Sample: 239112 - SB-17 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72341	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61967				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Report Date: August 9, 2010
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Sample: 239113 - SB-17 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72341
Prep Batch: 61967

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		225	mg/Kg	50	4.00

Sample: 239114 - SB-17 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72341
Prep Batch: 61967

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239115 - SB-18 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72339
Prep Batch: 61861

Analytical Method: S 8021B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.70	mg/Kg	1	2.00	85	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.63	mg/Kg	1	2.00	82	38.4 - 157

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Sample: 239115 - SB-18 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		203	mg/Kg	50	4.00

Sample: 239115 - SB-18 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-29	Analyzed By:	kg
QC Batch:	72158	Sample Preparation:	2010-07-29	Prepared By:	kg
Prep Batch:	61846				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.5	mg/Kg	1	100	96	70 - 130

Sample: 239115 - SB-18 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.72	mg/Kg	1	2.00	86	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.63	mg/Kg	1	2.00	82	42 - 159

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Sample: 239116 - SB-18 3'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61969 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		279	mg/Kg	50	4.00

Sample: 239117 - SB-18 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61969 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7710	mg/Kg	100	4.00

Sample: 239118 - SB-18 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61969 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7840	mg/Kg	100	4.00

Sample: 239119 - SB-18 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61969 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5750	mg/Kg	100	4.00

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Sample: 239120 - SB-18 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		889	mg/Kg	100	4.00

Sample: 239121 - SB-18 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		440	mg/Kg	50	4.00

Sample: 239122 - SB-19 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72342	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61969				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239122 - SB-19 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-29	Analyzed By:	kg
QC Batch:	72158	Sample Preparation:	2010-07-29	Prepared By:	kg
Prep Batch:	61846				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		95.1	mg/Kg	1	100	95	70 - 130

Sample: 239122 - SB-19 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.88	mg/Kg	1	2.00	94	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.71	mg/Kg	1	2.00	86	42 - 159

Sample: 239123 - SB-19 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72342
Prep Batch: 61969

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239124 - SB-19 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72342
Prep Batch: 61969

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 239125 - SB-19 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72416	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	61970				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239126 - SB-19 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72416	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	61970				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239127 - SB-20 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72416	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	61970				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 239127 - SB-20 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-29	Analyzed By:	kg
QC Batch:	72158	Sample Preparation:	2010-07-29	Prepared By:	kg
Prep Batch:	61846				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		97.6	mg/Kg	1	100	98	70 - 130

Sample: 239127 - SB-20 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	2.00	56	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	2.00	52	42 - 159

Sample: 239128 - SB-20 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		204	mg/Kg	50	4.00

Sample: 239129 - SB-20 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3290	mg/Kg	100	4.00

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Sample: 239130 - SB-20 7'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72416	Date Analyzed:	2010-08-06
Prep Batch:	61970	Sample Preparation:	2010-08-05
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8720	mg/Kg	100	4.00

Sample: 239131 - SB-20 10'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72416	Date Analyzed:	2010-08-06
Prep Batch:	61970	Sample Preparation:	2010-08-05
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		417	mg/Kg	50	4.00

Sample: 239132 - SB-20 15'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72416	Date Analyzed:	2010-08-06
Prep Batch:	61970	Sample Preparation:	2010-08-05
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		394	mg/Kg	50	4.00

Sample: 239133 - SB-21 1'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72416	Date Analyzed:	2010-08-06
Prep Batch:	61970	Sample Preparation:	2010-08-05
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 239133 - SB-21 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72158
Prep Batch: 61846

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		97.4	mg/Kg	1	100	97	70 - 130

Sample: 239133 - SB-21 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.71	mg/Kg	1	2.00	86	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.56	mg/Kg	1	2.00	78	42 - 159

Sample: 239134 - SB-21 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72416
Prep Batch: 61970

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-06
Sample Preparation: 2010-08-05

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		292	mg/Kg	50	4.00

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Sample: 239135 - SB-21 5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72417	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	62027				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1470	mg/Kg	100	4.00

Sample: 239136 - SB-21 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72417	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	62027				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		376	mg/Kg	50	4.00

Sample: 239137 - SB-21 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72417	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	62027				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		728	mg/Kg	50	4.00

Sample: 239138 - SB-21 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-06	Analyzed By:	AR
QC Batch:	72417	Sample Preparation:	2010-08-05	Prepared By:	AR
Prep Batch:	62027				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1620	mg/Kg	100	4.00

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Sample: 239139 - SB-21 20'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 Sample Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		427	mg/Kg	50	4.00

Sample: 239140 - SB-21 25'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 Sample Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		269	mg/Kg	50	4.00

Sample: 239141 - SB-18 25'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 Sample Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		301	mg/Kg	50	4.00

Method Blank (1) QC Batch: 72158

QC Batch: 72158 Date Analyzed: 2010-07-29 Analyzed By: kg
Prep Batch: 61846 QC Preparation: 2010-07-29 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	mg/Kg	50

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		94.0	mg/Kg	1	100	94	70 - 130

Method Blank (1) QC Batch: 72182

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<1.65	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84	52.4 - 130

Method Blank (1) QC Batch: 72326

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72339

QC Batch: 72339
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0150	mg/Kg	0.02
Toluene		<0.00950	mg/Kg	0.02
Ethylbenzene		<0.0106	mg/Kg	0.02
Xylene		<0.00930	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	55.4 - 132

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Method Blank (1) QC Batch: 72341

QC Batch: 72341 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61967 QC Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72342

QC Batch: 72342 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61969 QC Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72416

QC Batch: 72416 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 61970 QC Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72417

QC Batch: 72417 Date Analyzed: 2010-08-06 Analyzed By: AR
Prep Batch: 62027 QC Preparation: 2010-08-05 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: 72158 Date Analyzed: 2010-07-29 Analyzed By: kg
Prep Batch: 61846 QC Preparation: 2010-07-29 Prepared By: kg

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	272	mg/Kg	1	250	<14.5	109	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	282	mg/Kg	1	250	<14.5	113	57.4 - 133.4	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	107	110	mg/Kg	1	100	107	110	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	69.9 - 95.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	15.0	mg/Kg	1	20.0	<1.65	75	69.9 - 95.4	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.07	1.95	mg/Kg	1	2.00	104	98	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.83	1.74	mg/Kg	1	2.00	92	87	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.8	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72339
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.01	mg/Kg	1	2.00	<0.0150	100	81.9 - 108
Toluene	1.96	mg/Kg	1	2.00	<0.00950	98	81.9 - 107
Ethylbenzene	1.86	mg/Kg	1	2.00	<0.0106	93	78.4 - 107
Xylene	5.59	mg/Kg	1	6.00	<0.00930	93	79.1 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.98	mg/Kg	1	2.00	<0.0150	99	81.9 - 108	2	20
Toluene	1.94	mg/Kg	1	2.00	<0.00950	97	81.9 - 107	1	20
Ethylbenzene	1.87	mg/Kg	1	2.00	<0.0106	94	78.4 - 107	0	20
Xylene	5.62	mg/Kg	1	6.00	<0.00930	94	79.1 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.81	1.91	mg/Kg	1	2.00	90	96	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.70	1.81	mg/Kg	1	2.00	85	90	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 72341
Prep Batch: 61967

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.3	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	7	20

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72342
Prep Batch: 61969

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.9	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72416
Prep Batch: 61970

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	95.9	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.8	mg/Kg	1	100	<2.18	100	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72417
Prep Batch: 62027

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-05

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.4	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239133

QC Batch: 72158
Prep Batch: 61846

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	238	mg/Kg	1	250	<14.5	95	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	253	mg/Kg	1	250	<14.5	101	35.2 - 167.1	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	94.7	101	mg/Kg	1	100	95	101	70 - 130

Matrix Spike (MS-1) Spiked Sample: 239133

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.2	mg/Kg	1	20.0	<1.65	86	61.8 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.7	mg/Kg	1	20.0	<1.65	84	61.8 - 114	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.06	1.60	mg/Kg	1	2	53	80	50 - 162
4-Bromofluorobenzene (4-BFB)	1.08	1.57	mg/Kg	1	2	54	78	50 - 162

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Matrix Spike (MS-1) Spiked Sample: 239104

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9720	mg/Kg	100	10000	<218	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10100	mg/Kg	100	10000	<218	100	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239114

QC Batch: 72341
Prep Batch: 61967

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10400	mg/Kg	100	10000	<218	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10600	mg/Kg	100	10000	<218	104	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239124

QC Batch: 72342
Prep Batch: 61969

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10300	mg/Kg	100	10000	<218	102	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 239134

QC Batch: 72416
Prep Batch: 61970

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9680	mg/Kg	100	10000	292	94	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	9940	mg/Kg	100	10000	292	96	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239391

QC Batch: 72417
Prep Batch: 62027

Date Analyzed: 2010-08-06
QC Preparation: 2010-08-05

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	371	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10300	mg/Kg	100	10000	371	99	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 72158

Date Analyzed: 2010-07-29

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	278	111	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72158

Date Analyzed: 2010-07-29

Analyzed By: kg

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	283	113	80 - 120	2010-07-29

Standard (CCV-1)

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.986	99	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.910	91	80 - 120	2010-07-29

Standard (CCV-3)

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.01	101	80 - 120	2010-07-29

Standard (ICV-1)

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0963	96	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.0945	94	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0887	89	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.268	89	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.102	102	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0975	98	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.293	98	80 - 120	2010-07-29

Standard (ICV-1)

QC Batch: 72341

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72341

Date Analyzed: 2010-08-04

Analyzed By: AR

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.1	98	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72342

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.2	97	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72342

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72416

Date Analyzed: 2010-08-06

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-06

Standard (CCV-1)

QC Batch: 72416

Date Analyzed: 2010-08-06

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-08-06

Standard (ICV-1)

QC Batch: 72417

Date Analyzed: 2010-08-06

Analyzed By: AR

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Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-08-06

Standard (CCV-1)

QC Batch: 72417

Date Analyzed: 2010-08-06

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-06

WO# 10072902

Analysis Request of Chain of Custody Record

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ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: <u>COG</u>		SITE MANAGER: <u>Fke Tavaraz</u>		PROJECT NAME: <u>COG / Pronghorn SUD 8" Line</u>		PRESERVATIVE METHOD	
PROJECT NO.: <u>114600560</u>		SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS		METHOD	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	NUMBER OF CONTAINERS	METHOD
239103	7/27		S	X		1	ICE
104						1	ICE
105						1	ICE
106						1	ICE
107						1	ICE
108						1	ICE
109						1	ICE
110						1	ICE
111						1	ICE
112						1	ICE

RELINQUISHED BY (Signature)	DATE: <u>7/27/10</u>	TIME: <u>2:30</u>	RECEIVED BY (Signature)	DATE: <u>7/28/10</u>	TIME: <u>5:20pm</u>
<u>[Signature]</u>			<u>[Signature]</u>		

RELINQUISHED BY (Signature)	DATE: <u>7/28/10</u>	TIME: <u>5:20</u>	RECEIVED BY (Signature)	DATE: <u>7/28/10</u>	TIME: <u>5:20pm</u>
<u>[Signature]</u>			<u>[Signature]</u>		

RELINQUISHED BY (Signature)	DATE: <u>7/28/10</u>	TIME: <u>3:35pm</u>	RECEIVED BY (Signature)	DATE: <u>7/28/10</u>	TIME: <u>3:35pm</u>
<u>[Signature]</u>			<u>[Signature]</u>		

RECEIVING LABORATORY:	STATE: <u>TX</u>	ZIP: <u>79705</u>	PHONE: <u>(432) 682-4559</u>	DATE: <u>7/28/10</u>	TIME: <u>3:35pm</u>
CITY: <u>Midland</u>					

SAMPLE CONDITION WHEN RECEIVED: <u>3.8% intact</u>		REMARKS: <u>If TPH > 1000 mg/kg Run deeper samples</u>	
SAMPLE CONDITION WHEN RECEIVED: <u>3.8% intact</u>		REMARKS: <u>If TPH > 1000 mg/kg Run deeper samples</u>	

TETRA TECH CONTACT PERSON: <u>Fke Tavaraz</u>		RESULTS BY: <u>Fke Tavaraz</u>	
TETRA TECH CONTACT PERSON: <u>Fke Tavaraz</u>		RESULTS BY: <u>Fke Tavaraz</u>	

SAMPLE SHIPPED BY: (Circle) <u>BUS</u>		AIRBILL #:	
SAMPLE SHIPPED BY: (Circle) <u>BUS</u>		AIRBILL #:	

SAMPLED BY: (Print & Initial) <u>Kim</u>		DATE: <u>7/27/10</u>	
SAMPLED BY: (Print & Initial) <u>Kim</u>		DATE: <u>7/27/10</u>	

RUSH CHARGES AUTHORIZED:		YES	
RUSH CHARGES AUTHORIZED:		YES	

WB# 10012902

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: <u>COG</u>		SITE MANAGER: <u>Ike Tavaré</u>		PROJECT NAME: <u>COG / Pronghorn SWD 8" Line</u>		PRESERVATIVE METHOD		ANALYSIS REQUEST (Circle or Specify Method No.)																				
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	TPH 8015 MOD	PAH 8270	HCRA 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 8080/808	Post. 808/808	Chlordane	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS	
113	7/27	2010	S		X	1						X																
114						1																						
115						1																						
116						1																						
117						1																						
118						1																						
119						1																						
120						1																						
121						1																						
122						1																						
RELINQUISHED BY: (Signature) <u>[Signature]</u> Date: <u>7/27/10</u> Time: <u>2:10</u>						RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>7/27/10</u> Time: <u>2:10</u>						SAMPLED BY: (Print & Initial) <u>Kim</u> Date: <u>7/27/10</u> Time: <u></u>																
RELINQUISHED BY: (Signature) <u>[Signature]</u> Date: <u>7/28/10</u> Time: <u>2:10</u>						RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>7/28/10</u> Time: <u>2:10</u>						SAMPLE SHIPPED BY: (Circle) <u>FEDEx</u> <u>UPS</u> <u>BUS</u> <u>OTHER:</u>																
RELINQUISHED BY: (Signature) <u>[Signature]</u> Date: <u>7/28/10</u> Time: <u>2:10</u>						RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>7/28/10</u> Time: <u>2:10</u>						TETRA TECH CONTACT PERSON: <u>Ike Tavaré</u>																
RECEIVING LABORATORY: <u>3800</u>						RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>7/28/10</u> Time: <u>2:10</u>						RUSH Charges Authorized: <u>Yes</u> <u>No</u>																
CONTACT: <u>3800</u>						STATE: <u>TX</u> PHONE: <u></u> ZIP: <u></u> DATE: <u></u> TIME: <u></u>						SAMPLE CONDITION WHEN RECEIVED: <u>3800</u>																

REMARKS: If TPH > 1,000 mg/kg Run deeper samples

Run BTEX ... (2) Hashed TPH

Analysis Request of Chain of Custody Record

PAGE 3 OF 4

ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: CSG		SITE MANAGER: Ike Tovar	
PROJECT NO.: 114-6400560		PROJECT NAME: CSG / Prognosis SWD 8" Line	
LAB I.D. NUMBER	DATE	TIME	SAMPLE IDENTIFICATION
239123	7/27		SB-19 3'
124			SB-19 5'
125			SB-19 7'
126			SB-19 10'
127			SB-20 1'
128			SB-20 3'
129			SB-20 5'
130			SB-20 7'
131			SB-20 10'
132			SB-20 15'

MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	PRESERVATIVE METHOD
				HCL
				HNO3
				ICE
				NONE

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. 8270/825	PCBs 8080/808	Pest. 808/808	Chloride	Gamma Spec.	Alpha Beta (Al)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
TPH 8015 MOD TX1005 (Ext. to C35)														

RECEIVING LABORATORY: **CSG** DATE: **7/27/02** TIME: **2:30 pm**
 RECEIVED BY: (Signature) **Ike Tovar**
 ADDRESS: **1910 N. Big Spring St. Midland, Texas 79705**
 CITY: **Midland** STATE: **TX** ZIP: **79705**
 PHONE: **(432) 682-4559**
 REMARKS: **If TPH > 1,000 mg/kg Run deeper samples**
3.8% 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.

Run BTEX on (3) Hardest TPH

Analysis Request of Chain of Custody Record

ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG		SITE MANAGER: The Taverer		PROJECT NAME: 03G / Bonghorn SWD 8" Line		PROJECT IDENTIFICATION Lee Co., NM		NUMBER OF CONTAINERS		PRESERVATIVE METHOD	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SB-21	SB-21	SB-21	SB-21	SB-21	SB-21
133	7/27	2:10	S	X	X	1'	1				
134			S	X	X	3'	1				
135			S	X	X	5'	1				
136			S	X	X	7'	1				
137			S	X	X	10'	1				
138			S	X	X	15'	1				
139			S	X	X	20'	1				
140	7/27		S	X	X	25'	1				
141			S	X	X	25'	1				

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/27/00 Time: 2:30

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/27/00 Time: 2:30

RELINQUISHED BY: (Signature) *[Signature]* Date: 7/27/00 Time: 2:30

RECEIVED BY: (Signature) *[Signature]* Date: 7/27/00 Time: 2:30

RECEIVED BY: (Signature) *[Signature]* Date: 7/27/00 Time: 2:30

RECEIVED BY: (Signature) *[Signature]* Date: 7/27/00 Time: 2:30

RECEIVING LABORATORY: *[Signature]*

ADDRESS: *[Signature]*

CITY: *[Signature]*

STATE: *[Signature]*

ZIP: *[Signature]*

DATE: 7/27/00

TIME: 2:30

SAMPLE CONDITION WHEN RECEIVED: 38% intact

REMARKS: If TPH > 1,000 mg/kg Run deeper

DATE: 7/27/00

TIME: 2:30

8. If TP4 > 1,000 mg/kg Run deeper samples

Summary Report

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

Report Date: August 5, 2010

Work Order: 10072810



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238863	SB-1 1'	soil	2010-07-21	00:00	2010-07-27
238864	SB-1 3'	soil	2010-07-21	00:00	2010-07-27
238865	SB-1 5'	soil	2010-07-21	00:00	2010-07-27
238866	SB-1 7'	soil	2010-07-21	00:00	2010-07-27
238867	SB-1 10'	soil	2010-07-21	00:00	2010-07-27
238868	SB-1 15'	soil	2010-07-21	00:00	2010-07-27
238869	SB-1 20'	soil	2010-07-21	00:00	2010-07-27
238870	SB-2 1'	soil	2010-07-21	00:00	2010-07-27
238871	SB-2 3'	soil	2010-07-21	00:00	2010-07-27
238872	SB-2 5'	soil	2010-07-21	00:00	2010-07-27
238873	SB-2 7'	soil	2010-07-21	00:00	2010-07-27
238874	SB-2 10'	soil	2010-07-21	00:00	2010-07-27
238875	SB-2 15'	soil	2010-07-21	00:00	2010-07-27
238876	SB-2 20'	soil	2010-07-21	00:00	2010-07-27
238877	SB-3 1'	soil	2010-07-22	00:00	2010-07-27
238878	SB-3 3'	soil	2010-07-22	00:00	2010-07-27
238879	SB-3 5'	soil	2010-07-22	00:00	2010-07-27
238880	SB-3 7'	soil	2010-07-22	00:00	2010-07-27
238881	SB-3 10'	soil	2010-07-22	00:00	2010-07-27
238882	SB-3 15'	soil	2010-07-22	00:00	2010-07-27
238883	SB-3 20'	soil	2010-07-22	00:00	2010-07-27
238884	SB-3 25'	soil	2010-07-22	00:00	2010-07-27
238885	SB-4 1'	soil	2010-07-22	00:00	2010-07-27
238886	SB-4 3'	soil	2010-07-22	00:00	2010-07-27
238887	SB-4 5'	soil	2010-07-22	00:00	2010-07-27
238888	SB-4 7'	soil	2010-07-22	00:00	2010-07-27
238889	SB-4 10'	soil	2010-07-22	00:00	2010-07-27
238890	SB-4 15'	soil	2010-07-22	00:00	2010-07-27
238891	SB-4 20'	soil	2010-07-22	00:00	2010-07-27
238892	SB-5 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238893	SB-5 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238894	SB-5 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238895	SB-5 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238896	SB-5 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238897	SB-5 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238898	SB-5 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238899	SB-5 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238900	SB-5 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238901	SB-6 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238902	SB-6 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238903	SB-6 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238904	SB-6 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238905	SB-6 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238906	SB-6 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238907	SB-6 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238908	SB-6 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238909	SB-6 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238910	SB-6 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238911	SB-7 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238912	SB-7 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238913	SB-7 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238914	SB-7 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238915	SB-7 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238916	SB-7 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238917	SB-7 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238918	SB-7 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238919	SB-7 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238920	SB-7 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238921	SB-8 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238922	SB-8 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238923	SB-8 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238924	SB-8 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238925	SB-8 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238926	SB-8 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238927	SB-8 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238928	SB-8 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238929	SB-8 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238930	SB-9 1'	soil	2010-07-23	00:00	2010-07-27
238931	SB-9 3'	soil	2010-07-23	00:00	2010-07-27
238932	SB-9 5'	soil	2010-07-23	00:00	2010-07-27
238933	SB-9 7'	soil	2010-07-23	00:00	2010-07-27
238934	SB-9 10'	soil	2010-07-23	00:00	2010-07-27
238935	SB-10 1'	soil	2010-07-23	00:00	2010-07-27
238936	SB-10 3'	soil	2010-07-23	00:00	2010-07-27
238937	SB-10 5'	soil	2010-07-23	00:00	2010-07-27
238938	SB-10 7'	soil	2010-07-23	00:00	2010-07-27
238939	SB-10 10'	soil	2010-07-23	00:00	2010-07-27
238940	SB-11 1'	soil	2010-07-23	00:00	2010-07-27
238941	SB-11 3'	soil	2010-07-23	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238942	SB-11 5'	soil	2010-07-23	00:00	2010-07-27
238943	SB-11 7'	soil	2010-07-23	00:00	2010-07-27
238944	SB-11 10'	soil	2010-07-23	00:00	2010-07-27
238945	SB-11 15'	soil	2010-07-23	00:00	2010-07-27
238946	SB-11 20'	soil	2010-07-23	00:00	2010-07-27
238947	SB-11 25'	soil	2010-07-23	00:00	2010-07-27
238948	SB-11 30'	soil	2010-07-23	00:00	2010-07-27
238949	SB-12 1'	soil	2010-07-23	00:00	2010-07-27
238950	SB-12 3'	soil	2010-07-23	00:00	2010-07-27
238951	SB-12 5'	soil	2010-07-23	00:00	2010-07-27
238952	SB-12 7'	soil	2010-07-23	00:00	2010-07-27
238953	SB-12 10'	soil	2010-07-23	00:00	2010-07-27
238954	SB-12 15'	soil	2010-07-23	00:00	2010-07-27
238955	SB-12 20'	soil	2010-07-23	00:00	2010-07-27
238956	SB-12 25'	soil	2010-07-23	00:00	2010-07-27
238957	SB-13 1'	soil	2010-07-23	00:00	2010-07-27
238958	SB-13 3'	soil	2010-07-23	00:00	2010-07-27
238959	SB-13 5'	soil	2010-07-23	00:00	2010-07-27
238960	SB-13 7'	soil	2010-07-23	00:00	2010-07-27
238961	SB-13 10'	soil	2010-07-23	00:00	2010-07-27
238962	SB-13 15'	soil	2010-07-23	00:00	2010-07-27
238963	SB-13 20'	soil	2010-07-23	00:00	2010-07-27
238964	SB-13 25'	soil	2010-07-23	00:00	2010-07-27
238965	SB-13 30'	soil	2010-07-23	00:00	2010-07-27
238966	SB-14 1'	soil	2010-07-23	00:00	2010-07-27
238967	SB-14 3'	soil	2010-07-23	00:00	2010-07-27
238968	SB-14 5'	soil	2010-07-23	00:00	2010-07-27
238969	SB-14 7'	soil	2010-07-23	00:00	2010-07-27
238970	SB-14 10'	soil	2010-07-23	00:00	2010-07-27
238971	SB-14 15'	soil	2010-07-23	00:00	2010-07-27
238972	SB-14 20'	soil	2010-07-23	00:00	2010-07-27
238973	SB-14 25'	soil	2010-07-23	00:00	2010-07-27
238974	SB-15 1'	soil	2010-07-23	00:00	2010-07-27
238975	SB-15 3'	soil	2010-07-23	00:00	2010-07-27
238976	SB-15 5'	soil	2010-07-23	00:00	2010-07-27
238977	SB-15 7'	soil	2010-07-23	00:00	2010-07-27
238978	SB-15 10'	soil	2010-07-23	00:00	2010-07-27
238979	SB-15 15'	soil	2010-07-23	00:00	2010-07-27
238980	SB-15 20'	soil	2010-07-23	00:00	2010-07-27
238981	SB-15 25'	soil	2010-07-23	00:00	2010-07-27
238982	SB-15 30'	soil	2010-07-23	00:00	2010-07-27
238983	SB-2 25'	soil	2010-07-21	00:00	2010-07-27

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)
238863 - SB-1 1'	0.0396	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238870 - SB-2 1'	0.0236	<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)
238877 - SB-3 1'	0.0277	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238885 - SB-4 1'	0.0266	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238892 - SB-5 1' (2' BEB)	0.0415	<0.0200	<0.0200	0.0923	<50.0	6.65
238901 - SB-6 1' (2' BEB)	0.0387	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238911 - SB-7 1' (2' BEB)	0.0408	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238921 - SB-8 1' (2' BEB)	0.0265	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238930 - SB-9 1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238935 - SB-10 1'	0.0407	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238940 - SB-11 1'					<50.0	<2.00
238949 - SB-12 1'					<50.0	<2.00
238957 - SB-13 1'					<50.0	<2.00
238966 - SB-14 1'					<50.0	<2.00
238974 - SB-15 1'					<50.0	<2.00

Sample: 238863 - SB-1 1'

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

Sample: 238864 - SB-1 3'

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

Sample: 238865 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		12100	mg/Kg	4.00

Sample: 238866 - SB-1 7'

Param	Flag	Result	Units	RL
Chloride		1980	mg/Kg	4.00

Sample: 238867 - SB-1 10'

Param	Flag	Result	Units	RL
Chloride		522	mg/Kg	4.00

Sample: 238868 - SB-1 15'

Param	Flag	Result	Units	RL
Chloride		215	mg/Kg	4.00

Sample: 238869 - SB-1 20'

Param	Flag	Result	Units	RL
Chloride		263	mg/Kg	4.00

Sample: 238870 - SB-2 1'

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

Sample: 238871 - SB-2 3'

Param	Flag	Result	Units	RL
Chloride		2400	mg/Kg	4.00

Sample: 238872 - SB-2 5'

Param	Flag	Result	Units	RL
Chloride		13500	mg/Kg	4.00

Sample: 238873 - SB-2 7'

Param	Flag	Result	Units	RL
Chloride		8530	mg/Kg	4.00

Sample: 238874 - SB-2 10'

Param	Flag	Result	Units	RL
Chloride		211	mg/Kg	4.00

Sample: 238875 - SB-2 15'

Param	Flag	Result	Units	RL
Chloride		326	mg/Kg	4.00

Sample: 238876 - SB-2 20'

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

Sample: 238877 - SB-3 1'

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

Sample: 238878 - SB-3 3'

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

Sample: 238879 - SB-3 5'

Param	Flag	Result	Units	RL
Chloride		10900	mg/Kg	4.00

Sample: 238880 - SB-3 7'

Param	Flag	Result	Units	RL
Chloride		9660	mg/Kg	4.00

Sample: 238881 - SB-3 10'

Param	Flag	Result	Units	RL
Chloride		4200	mg/Kg	4.00

Sample: 238882 - SB-3 15'

Param	Flag	Result	Units	RL
Chloride		2890	mg/Kg	4.00

Sample: 238883 - SB-3 20'

Param	Flag	Result	Units	RL
Chloride		238	mg/Kg	4.00

Sample: 238884 - SB-3 25'

Param	Flag	Result	Units	RL
Chloride		238	mg/Kg	4.00

Sample: 238885 - SB-4 1'

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

Sample: 238886 - SB-4 3'

Param	Flag	Result	Units	RL
Chloride		219	mg/Kg	4.00

Sample: 238887 - SB-4 5'

Param	Flag	Result	Units	RL
Chloride		10300	mg/Kg	4.00

Sample: 238888 - SB-4 7'

Param	Flag	Result	Units	RL
Chloride		12900	mg/Kg	4.00

Sample: 238889 - SB-4 10'

Param	Flag	Result	Units	RL
Chloride		10100	mg/Kg	4.00

Sample: 238890 - SB-4 15'

Param	Flag	Result	Units	RL
Chloride		1180	mg/Kg	4.00

Sample: 238891 - SB-4 20'

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

Sample: 238892 - SB-5 1' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		637	mg/Kg	4.00

Sample: 238893 - SB-5 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		6440	mg/Kg	4.00

Sample: 238894 - SB-5 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		8590	mg/Kg	4.00

Sample: 238895 - SB-5 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		3940	mg/Kg	4.00

Sample: 238896 - SB-5 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		1450	mg/Kg	4.00

Sample: 238897 - SB-5 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		653	mg/Kg	4.00

Sample: 238898 - SB-5 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		334	mg/Kg	4.00

Sample: 238899 - SB-5 25' (2' BEB)

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

Sample: 238900 - SB-5 30' (2' BEB)

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

Sample: 238901 - SB-6 1' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		10200	mg/Kg	4.00

Sample: 238902 - SB-6 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		10200	mg/Kg	4.00

Sample: 238903 - SB-6 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		9200	mg/Kg	4.00

Sample: 238904 - SB-6 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		11100	mg/Kg	4.00

Sample: 238905 - SB-6 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		8650	mg/Kg	4.00

Sample: 238906 - SB-6 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		8250	mg/Kg	4.00

Sample: 238907 - SB-6 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		1140	mg/Kg	4.00

Sample: 238908 - SB-6 25' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		659	mg/Kg	4.00

Sample: 238909 - SB-6 30' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		516	mg/Kg	4.00

Sample: 238910 - SB-6 40' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		234	mg/Kg	4.00

Sample: 238911 - SB-7 1' (2' BEB)

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

Sample: 238912 - SB-7 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		788	mg/Kg	4.00

Sample: 238913 - SB-7 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		4730	mg/Kg	4.00

Sample: 238914 - SB-7 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		5360	mg/Kg	4.00

Sample: 238915 - SB-7 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		4940	mg/Kg	4.00

Sample: 238916 - SB-7 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		5020	mg/Kg	4.00

Sample: 238917 - SB-7 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		958	mg/Kg	4.00

Sample: 238918 - SB-7 25' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		676	mg/Kg	4.00

Sample: 238919 - SB-7 30' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		220	mg/Kg	4.00

Sample: 238920 - SB-7 40' (2' BEB)

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

Sample: 238921 - SB-8 1' (2' BEB)

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

Sample: 238922 - SB-8 3' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		254	mg/Kg	4.00

Sample: 238923 - SB-8 5' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		7200	mg/Kg	4.00

Sample: 238924 - SB-8 7' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		3160	mg/Kg	4.00

Sample: 238925 - SB-8 10' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		3020	mg/Kg	4.00

Sample: 238926 - SB-8 15' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		2640	mg/Kg	4.00

Sample: 238927 - SB-8 20' (2' BEB)

Param	Flag	Result	Units	RL
Chloride		586	mg/Kg	4.00

Sample: 238928 - SB-8 25' (2' BEB)

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

Sample: 238929 - SB-8 30' (2' BEB)

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

Sample: 238930 - SB-9 1'

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

Sample: 238931 - SB-9 3'

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

Sample: 238932 - SB-9 5'

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

Sample: 238933 - SB-9 7'

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

Sample: 238934 - SB-9 10'

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

Sample: 238935 - SB-10 1'

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

Sample: 238936 - SB-10 3'

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

Sample: 238937 - SB-10 5'

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

Sample: 238938 - SB-10 7'

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

Sample: 238939 - SB-10 10'

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

Sample: 238940 - SB-11 1'

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

Sample: 238941 - SB-11 3'

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

Sample: 238942 - SB-11 5'

Param	Flag	Result	Units	RL
Chloride		823	mg/Kg	4.00

Sample: 238943 - SB-11 7'

Param	Flag	Result	Units	RL
Chloride		12700	mg/Kg	4.00

Sample: 238944 - SB-11 10'

Param	Flag	Result	Units	RL
Chloride		6150	mg/Kg	4.00

Sample: 238945 - SB-11 15'

Param	Flag	Result	Units	RL
Chloride		1210	mg/Kg	4.00

Sample: 238946 - SB-11 20'

Param	Flag	Result	Units	RL
Chloride		782	mg/Kg	4.00

Sample: 238947 - SB-11 25'

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

Sample: 238948 - SB-11 30'

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

Sample: 238949 - SB-12 1'

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

Sample: 238950 - SB-12 3'

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

Sample: 238951 - SB-12 5'

Param	Flag	Result	Units	RL
Chloride		5930	mg/Kg	4.00

Sample: 238952 - SB-12 7'

Param	Flag	Result	Units	RL
Chloride		11200	mg/Kg	4.00

Sample: 238953 - SB-12 10'

Param	Flag	Result	Units	RL
Chloride		4460	mg/Kg	4.00

Sample: 238954 - SB-12 15'

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

Sample: 238955 - SB-12 20'

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

Sample: 238956 - SB-12 25'

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

Sample: 238957 - SB-13 1'

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

Sample: 238958 - SB-13 3'

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

Sample: 238959 - SB-13 5'

Param	Flag	Result	Units	RL
Chloride		10600	mg/Kg	4.00

Sample: 238960 - SB-13 7'

Param	Flag	Result	Units	RL
Chloride		7190	mg/Kg	4.00

Sample: 238961 - SB-13 10'

Param	Flag	Result	Units	RL
Chloride		2500	mg/Kg	4.00

Sample: 238962 - SB-13 15'

Param	Flag	Result	Units	RL
Chloride		919	mg/Kg	4.00

Sample: 238963 - SB-13 20'

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

Sample: 238964 - SB-13 25'

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

Sample: 238965 - SB-13 30'

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

Sample: 238966 - SB-14 1'

Param	Flag	Result	Units	RL
Chloride		344	mg/Kg	4.00

Sample: 238967 - SB-14 3'

Param	Flag	Result	Units	RL
Chloride		539	mg/Kg	4.00

Sample: 238968 - SB-14 5'

Param	Flag	Result	Units	RL
Chloride		4800	mg/Kg	4.00

Sample: 238969 - SB-14 7'

Param	Flag	Result	Units	RL
Chloride		906	mg/Kg	4.00

Sample: 238970 - SB-14 10'

Param	Flag	Result	Units	RL
Chloride		1340	mg/Kg	4.00

Sample: 238971 - SB-14 15'

Param	Flag	Result	Units	RL
Chloride		496	mg/Kg	4.00

Sample: 238972 - SB-14 20'

Param	Flag	Result	Units	RL
Chloride		315	mg/Kg	4.00

Sample: 238973 - SB-14 25'

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

Sample: 238974 - SB-15 1'

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

Sample: 238975 - SB-15 3'

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

Sample: 238976 - SB-15 5'

Param	Flag	Result	Units	RL
Chloride		798	mg/Kg	4.00

Sample: 238977 - SB-15 7'

Param	Flag	Result	Units	RL
Chloride		527	mg/Kg	4.00

Sample: 238978 - SB-15 10'

Param	Flag	Result	Units	RL
Chloride		1040	mg/Kg	4.00

Sample: 238979 - SB-15 15'

Param	Flag	Result	Units	RL
Chloride		1100	mg/Kg	4.00

Sample: 238980 - SB-15 20'

Param	Flag	Result	Units	RL
Chloride		1010	mg/Kg	4.00

Sample: 238981 - SB-15 25'

Param	Flag	Result	Units	RL
Chloride		252	mg/Kg	4.00

Sample: 238982 - SB-15 30'

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

Sample: 238983 - SB-2 25'

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



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6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
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Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

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

Report Date: August 5, 2010

Work Order: 10072810



Project Location: Lea County, NM
Project Name: COG/Pronghorn SWD 8 in. Line
Project Number: 114-6400560

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238863	SB-1 1'	soil	2010-07-21	00:00	2010-07-27
238864	SB-1 3'	soil	2010-07-21	00:00	2010-07-27
238865	SB-1 5'	soil	2010-07-21	00:00	2010-07-27
238866	SB-1 7'	soil	2010-07-21	00:00	2010-07-27
238867	SB-1 10'	soil	2010-07-21	00:00	2010-07-27
238868	SB-1 15'	soil	2010-07-21	00:00	2010-07-27
238869	SB-1 20'	soil	2010-07-21	00:00	2010-07-27
238870	SB-2 1'	soil	2010-07-21	00:00	2010-07-27
238871	SB-2 3'	soil	2010-07-21	00:00	2010-07-27
238872	SB-2 5'	soil	2010-07-21	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238873	SB-2 7'	soil	2010-07-21	00:00	2010-07-27
238874	SB-2 10'	soil	2010-07-21	00:00	2010-07-27
238875	SB-2 15'	soil	2010-07-21	00:00	2010-07-27
238876	SB-2 20'	soil	2010-07-21	00:00	2010-07-27
238877	SB-3 1'	soil	2010-07-22	00:00	2010-07-27
238878	SB-3 3'	soil	2010-07-22	00:00	2010-07-27
238879	SB-3 5'	soil	2010-07-22	00:00	2010-07-27
238880	SB-3 7'	soil	2010-07-22	00:00	2010-07-27
238881	SB-3 10'	soil	2010-07-22	00:00	2010-07-27
238882	SB-3 15'	soil	2010-07-22	00:00	2010-07-27
238883	SB-3 20'	soil	2010-07-22	00:00	2010-07-27
238884	SB-3 25'	soil	2010-07-22	00:00	2010-07-27
238885	SB-4 1'	soil	2010-07-22	00:00	2010-07-27
238886	SB-4 3'	soil	2010-07-22	00:00	2010-07-27
238887	SB-4 5'	soil	2010-07-22	00:00	2010-07-27
238888	SB-4 7'	soil	2010-07-22	00:00	2010-07-27
238889	SB-4 10'	soil	2010-07-22	00:00	2010-07-27
238890	SB-4 15'	soil	2010-07-22	00:00	2010-07-27
238891	SB-4 20'	soil	2010-07-22	00:00	2010-07-27
238892	SB-5 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238893	SB-5 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238894	SB-5 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238895	SB-5 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238896	SB-5 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238897	SB-5 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238898	SB-5 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238899	SB-5 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238900	SB-5 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238901	SB-6 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238902	SB-6 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238903	SB-6 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238904	SB-6 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238905	SB-6 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238906	SB-6 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238907	SB-6 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238908	SB-6 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238909	SB-6 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238910	SB-6 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238911	SB-7 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238912	SB-7 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238913	SB-7 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238914	SB-7 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238915	SB-7 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238916	SB-7 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238917	SB-7 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238918	SB-7 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238919	SB-7 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238920	SB-7 40' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238921	SB-8 1' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238922	SB-8 3' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238923	SB-8 5' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238924	SB-8 7' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238925	SB-8 10' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238926	SB-8 15' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238927	SB-8 20' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238928	SB-8 25' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238929	SB-8 30' (2' BEB)	soil	2010-07-22	00:00	2010-07-27
238930	SB-9 1'	soil	2010-07-23	00:00	2010-07-27
238931	SB-9 3'	soil	2010-07-23	00:00	2010-07-27
238932	SB-9 5'	soil	2010-07-23	00:00	2010-07-27
238933	SB-9 7'	soil	2010-07-23	00:00	2010-07-27
238934	SB-9 10'	soil	2010-07-23	00:00	2010-07-27
238935	SB-10 1'	soil	2010-07-23	00:00	2010-07-27
238936	SB-10 3'	soil	2010-07-23	00:00	2010-07-27
238937	SB-10 5'	soil	2010-07-23	00:00	2010-07-27
238938	SB-10 7'	soil	2010-07-23	00:00	2010-07-27
238939	SB-10 10'	soil	2010-07-23	00:00	2010-07-27
238940	SB-11 1'	soil	2010-07-23	00:00	2010-07-27
238941	SB-11 3'	soil	2010-07-23	00:00	2010-07-27
238942	SB-11 5'	soil	2010-07-23	00:00	2010-07-27
238943	SB-11 7'	soil	2010-07-23	00:00	2010-07-27
238944	SB-11 10'	soil	2010-07-23	00:00	2010-07-27
238945	SB-11 15'	soil	2010-07-23	00:00	2010-07-27
238946	SB-11 20'	soil	2010-07-23	00:00	2010-07-27
238947	SB-11 25'	soil	2010-07-23	00:00	2010-07-27
238948	SB-11 30'	soil	2010-07-23	00:00	2010-07-27
238949	SB-12 1'	soil	2010-07-23	00:00	2010-07-27
238950	SB-12 3'	soil	2010-07-23	00:00	2010-07-27
238951	SB-12 5'	soil	2010-07-23	00:00	2010-07-27
238952	SB-12 7'	soil	2010-07-23	00:00	2010-07-27
238953	SB-12 10'	soil	2010-07-23	00:00	2010-07-27
238954	SB-12 15'	soil	2010-07-23	00:00	2010-07-27
238955	SB-12 20'	soil	2010-07-23	00:00	2010-07-27
238956	SB-12 25'	soil	2010-07-23	00:00	2010-07-27
238957	SB-13 1'	soil	2010-07-23	00:00	2010-07-27
238958	SB-13 3'	soil	2010-07-23	00:00	2010-07-27
238959	SB-13 5'	soil	2010-07-23	00:00	2010-07-27
238960	SB-13 7'	soil	2010-07-23	00:00	2010-07-27
238961	SB-13 10'	soil	2010-07-23	00:00	2010-07-27
238962	SB-13 15'	soil	2010-07-23	00:00	2010-07-27
238963	SB-13 20'	soil	2010-07-23	00:00	2010-07-27
238964	SB-13 25'	soil	2010-07-23	00:00	2010-07-27

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238965	SB-13 30'	soil	2010-07-23	00:00	2010-07-27
238966	SB-14 1'	soil	2010-07-23	00:00	2010-07-27
238967	SB-14 3'	soil	2010-07-23	00:00	2010-07-27
238968	SB-14 5'	soil	2010-07-23	00:00	2010-07-27
238969	SB-14 7'	soil	2010-07-23	00:00	2010-07-27
238970	SB-14 10'	soil	2010-07-23	00:00	2010-07-27
238971	SB-14 15'	soil	2010-07-23	00:00	2010-07-27
238972	SB-14 20'	soil	2010-07-23	00:00	2010-07-27
238973	SB-14 25'	soil	2010-07-23	00:00	2010-07-27
238974	SB-15 1'	soil	2010-07-23	00:00	2010-07-27
238975	SB-15 3'	soil	2010-07-23	00:00	2010-07-27
238976	SB-15 5'	soil	2010-07-23	00:00	2010-07-27
238977	SB-15 7'	soil	2010-07-23	00:00	2010-07-27
238978	SB-15 10'	soil	2010-07-23	00:00	2010-07-27
238979	SB-15 15'	soil	2010-07-23	00:00	2010-07-27
238980	SB-15 20'	soil	2010-07-23	00:00	2010-07-27
238981	SB-15 25'	soil	2010-07-23	00:00	2010-07-27
238982	SB-15 30'	soil	2010-07-23	00:00	2010-07-27
238983	SB-2 25'	soil	2010-07-21	00:00	2010-07-27

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 79 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project COG/Pronghorn SWD 8 in. Line were received by TraceAnalysis, Inc. on 2010-07-27 and assigned to work order 10072810. Samples for work order 10072810 were received intact at a temperature of 3.2 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	61819	2010-07-28 at 08:30	72137	2010-07-28 at 10:41
BTEX	S 8021B	61861	2010-07-29 at 10:44	72339	2010-07-29 at 10:17
Chloride (Titration)	SM 4500-Cl B	61836	2010-07-29 at 08:26	72166	2010-07-29 at 15:21
Chloride (Titration)	SM 4500-Cl B	61837	2010-07-29 at 08:27	72167	2010-07-29 at 15:22
Chloride (Titration)	SM 4500-Cl B	61838	2010-07-29 at 08:27	72168	2010-07-29 at 15:23
Chloride (Titration)	SM 4500-Cl B	61839	2010-07-29 at 11:28	72250	2010-08-02 at 15:50
Chloride (Titration)	SM 4500-Cl B	61884	2010-07-30 at 08:44	72251	2010-08-02 at 15:51
Chloride (Titration)	SM 4500-Cl B	61885	2010-07-30 at 08:45	72273	2010-08-03 at 11:05
Chloride (Titration)	SM 4500-Cl B	61886	2010-07-30 at 08:45	72274	2010-08-03 at 11:06
Chloride (Titration)	SM 4500-Cl B	61887	2010-07-30 at 08:46	72320	2010-08-04 at 11:32
Chloride (Titration)	SM 4500-Cl B	61888	2010-07-30 at 08:46	72321	2010-08-04 at 11:33
Chloride (Titration)	SM 4500-Cl B	61889	2010-07-30 at 08:47	72322	2010-08-04 at 11:33
Chloride (Titration)	SM 4500-Cl B	61964	2010-08-03 at 09:08	72323	2010-08-04 at 11:34
Chloride (Titration)	SM 4500-Cl B	61965	2010-08-03 at 09:09	72325	2010-08-04 at 11:35
Chloride (Titration)	SM 4500-Cl B	61966	2010-08-03 at 09:10	72326	2010-08-04 at 11:36
TPH DRO - NEW	S 8015 D	61828	2010-07-28 at 09:37	72146	2010-07-28 at 09:37
TPH DRO - NEW	S 8015 D	61829	2010-07-28 at 09:37	72147	2010-07-28 at 09:37
TPH GRO	S 8015 D	61819	2010-07-28 at 08:30	72138	2010-07-28 at 11:08
TPH GRO	S 8015 D	61861	2010-07-29 at 10:44	72182	2010-07-29 at 10:44

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10072810 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Analytical Report

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0396	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.90	mg/Kg	1	2.00	95	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.86	mg/Kg	1	2.00	93	38.4 - 157

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		107	mg/Kg	1	100	107	70 - 130

Sample: 238863 - SB-1 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72138
Prep Batch: 61819

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.95	mg/Kg	1	2.00	98	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.87	mg/Kg	1	2.00	94	42 - 159

Sample: 238864 - SB-1 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238865 - SB-1 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		12100	mg/Kg	100	4.00

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Sample: 238866 - SB-1 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1980	mg/Kg	100	4.00

Sample: 238867 - SB-1 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		522	mg/Kg	50	4.00

Sample: 238868 - SB-1 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		215	mg/Kg	50	4.00

Sample: 238869 - SB-1 20'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		263	mg/Kg	50	4.00

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Sample: 238870 - SB-2 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL		Units	Dilution	RL	
		Result					
Benzene		0.0236		mg/Kg	1		0.0200
Toluene		<0.0200		mg/Kg	1		0.0200
Ethylbenzene		<0.0200		mg/Kg	1		0.0200
Xylene		<0.0200		mg/Kg	1		0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.69	mg/Kg	1	2.00	84	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.65	mg/Kg	1	2.00	82	38.4 - 157

Sample: 238870 - SB-2 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL		Units	Dilution	RL	
		Result					
Chloride		<200		mg/Kg	50		4.00

Sample: 238870 - SB-2 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL		Units	Dilution	RL	
		Result					
DRO		<50.0		mg/Kg	1		50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		105	mg/Kg	1	100	105	70 - 130

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Sample: 238870 - SB-2 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72138
Prep Batch: 61819

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/Kg	1	2.00	88	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	42 - 159

Sample: 238871 - SB-2 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2400	mg/Kg	100	4.00

Sample: 238872 - SB-2 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72166
Prep Batch: 61836

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		13500	mg/Kg	100	4.00

Sample: 238873 - SB-2 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72167
Prep Batch: 61837

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8530	mg/Kg	100	4.00

Sample: 238874 - SB-2 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		211	mg/Kg	50	4.00

Sample: 238875 - SB-2 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		326	mg/Kg	50	4.00

Sample: 238876 - SB-2 20'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238877 - SB-3 1'

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0277	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	1	2.00	82	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.58	mg/Kg	1	2.00	79	38.4 - 157

Sample: 238877 - SB-3 1'

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 72167

Prep Batch: 61837

Analytical Method: SM 4500-Cl B

Date Analyzed: 2010-07-29

Sample Preparation: 2010-07-29

Prep Method: N/A

Analyzed By: AR

Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238877 - SB-3 1'

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 72147

Prep Batch: 61829

Analytical Method: S 8015 D

Date Analyzed: 2010-07-28

Sample Preparation: 2010-07-28

Prep Method: N/A

Analyzed By: kg

Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 238877 - SB-3 1'

Laboratory: Midland

Analysis: TPH GRO

QC Batch: 72138

Prep Batch: 61819

Analytical Method: S 8015 D

Date Analyzed: 2010-07-28

Sample Preparation: 2010-07-28

Prep Method: S 5035

Analyzed By: AG

Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.68	mg/Kg	1	2.00	84	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.59	mg/Kg	1	2.00	80	42 - 159

Sample: 238878 - SB-3 3'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238879 - SB-3 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10900	mg/Kg	100	4.00

Sample: 238880 - SB-3 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9660	mg/Kg	100	4.00

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Sample: 238881 - SB-3 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72167	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61837				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4200	mg/Kg	100	4.00

Sample: 238882 - SB-3 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72167	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61837				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2890	mg/Kg	100	4.00

Sample: 238883 - SB-3 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72168	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61838				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		238	mg/Kg	50	4.00

Sample: 238884 - SB-3 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-07-29	Analyzed By:	AR
QC Batch:	72168	Sample Preparation:	2010-07-29	Prepared By:	AR
Prep Batch:	61838				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		238	mg/Kg	50	4.00

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Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0266	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.14	mg/Kg	1	2.00	57	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	2.00	56	38.4 - 157

Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

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Sample: 238885 - SB-4 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72138
Prep Batch: 61819

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.15	mg/Kg	1	2.00	58	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	2.00	56	42 - 159

Sample: 238886 - SB-4 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		219	mg/Kg	50	4.00

Sample: 238887 - SB-4 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10300	mg/Kg	100	4.00

Sample: 238888 - SB-4 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72168
Prep Batch: 61838

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		12900	mg/Kg	100	4.00

Sample: 238889 - SB-4 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10100	mg/Kg	100	4.00

Sample: 238890 - SB-4 15'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1180	mg/Kg	100	4.00

Sample: 238891 - SB-4 20'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0415	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		0.0923	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/Kg	1	2.00	104	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.08	mg/Kg	1	2.00	104	38.4 - 157

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 Sample Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		637	mg/Kg	50	4.00

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 238892 - SB-5 1' (2' BEB)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72138 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		6.65	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.13	mg/Kg	1	2.00	106	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.38	mg/Kg	1	2.00	119	42 - 159

Sample: 238893 - SB-5 3' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		6440	mg/Kg	100	4.00

Sample: 238894 - SB-5 5' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8590	mg/Kg	100	4.00

Sample: 238895 - SB-5 7' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3940	mg/Kg	100	4.00

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Sample: 238896 - SB-5 10' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1450	mg/Kg	100	4.00

Sample: 238897 - SB-5 15' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		653	mg/Kg	50	4.00

Sample: 238898 - SB-5 20' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		334	mg/Kg	50	4.00

Sample: 238899 - SB-5 25' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238900 - SB-5 30' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61839 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238901 - SB-6 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0387	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.26	mg/Kg	1	2.00	63	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.21	mg/Kg	1	2.00	60	38.4 - 157

Sample: 238901 - SB-6 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72250 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61839 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10200	mg/Kg	100	4.00

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Sample: 238901 - SB-6 1' (2' BEB)

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72147	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61829				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 238901 - SB-6 1' (2' BEB)

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-28	Analyzed By:	AG
QC Batch:	72138	Sample Preparation:	2010-07-28	Prepared By:	AG
Prep Batch:	61819				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.27	mg/Kg	1	2.00	64	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	2.00	62	42 - 159

Sample: 238902 - SB-6 3' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72250	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61839				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10200	mg/Kg	100	4.00

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Sample: 238903 - SB-6 5' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72251 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61884 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		9200	mg/Kg	100	4.00

Sample: 238904 - SB-6 7' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72251 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61884 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11100	mg/Kg	100	4.00

Sample: 238905 - SB-6 10' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72251 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61884 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8650	mg/Kg	100	4.00

Sample: 238906 - SB-6 15' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72251 Date Analyzed: 2010-08-02 Analyzed By: AR
Prep Batch: 61884 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		8250	mg/Kg	100	4.00

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Sample: 238907 - SB-6 20' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1140	mg/Kg	100	4.00

Sample: 238908 - SB-6 25' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		659	mg/Kg	50	4.00

Sample: 238909 - SB-6 30' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		516	mg/Kg	50	4.00

Sample: 238910 - SB-6 40' (2' BEB)

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-02	Analyzed By:	AR
QC Batch:	72251	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61884				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		234	mg/Kg	50	4.00

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Sample: 238911 - SB-7 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX
QC Batch: 72137
Prep Batch: 61819

Analytical Method: S 8021B
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0408	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.60	mg/Kg	1	2.00	80	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	38.4 - 157

Sample: 238911 - SB-7 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72251
Prep Batch: 61884

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-02
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238911 - SB-7 1' (2' BEB)

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72147
Prep Batch: 61829

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		103	mg/Kg	1	100	103	70 - 130

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Sample: 238911 - SB-7 1' (2' BEB)

Laboratory:	Midland		
Analysis:	TPH GRO	Analytical Method:	S 8015 D
QC Batch:	72138	Date Analyzed:	2010-07-28
Prep Batch:	61819	Sample Preparation:	2010-07-28
		Prep Method:	S 5035
		Analyzed By:	AG
		Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.59	mg/Kg	1	2.00	80	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	42 - 159

Sample: 238912 - SB-7 3' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72251	Date Analyzed:	2010-08-02
Prep Batch:	61884	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		788	mg/Kg	50	4.00

Sample: 238913 - SB-7 5' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72273	Date Analyzed:	2010-08-03
Prep Batch:	61885	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4730	mg/Kg	100	4.00

Sample: 238914 - SB-7 7' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72273	Date Analyzed:	2010-08-03
Prep Batch:	61885	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5360	mg/Kg	100	4.00

Sample: 238915 - SB-7 10' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4940	mg/Kg	100	4.00

Sample: 238916 - SB-7 15' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5020	mg/Kg	100	4.00

Sample: 238917 - SB-7 20' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		958	mg/Kg	50	4.00

Sample: 238918 - SB-7 25' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

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Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		676	mg/Kg	50	4.00

Sample: 238919 - SB-7 30' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		220	mg/Kg	50	4.00

Sample: 238920 - SB-7 40' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72137 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0265	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.72	mg/Kg	1	2.00	86	52.8 - 137

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		1.68	mg/Kg	1	2.00	84	38.4 - 157

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		98.1	mg/Kg	1	100	98	70 - 130

Sample: 238921 - SB-8 1' (2' BEB)

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72138 Date Analyzed: 2010-07-28 Analyzed By: AG
Prep Batch: 61819 Sample Preparation: 2010-07-28 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.75	mg/Kg	1	2.00	88	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.69	mg/Kg	1	2.00	84	42 - 159

Sample: 238922 - SB-8 3' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72273 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61885 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		254	mg/Kg	50	4.00

Sample: 238923 - SB-8 5' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7200	mg/Kg	100	4.00

Sample: 238924 - SB-8 7' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3160	mg/Kg	100	4.00

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Sample: 238925 - SB-8 10' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72274	Date Analyzed:	2010-08-03
Prep Batch:	61886	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		3020	mg/Kg	100	4.00

Sample: 238926 - SB-8 15' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72274	Date Analyzed:	2010-08-03
Prep Batch:	61886	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2640	mg/Kg	100	4.00

Sample: 238927 - SB-8 20' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72274	Date Analyzed:	2010-08-03
Prep Batch:	61886	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		586	mg/Kg	50	4.00

Sample: 238928 - SB-8 25' (2' BEB)

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72274	Date Analyzed:	2010-08-03
Prep Batch:	61886	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238929 - SB-8 30' (2' BEB)

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238930 - SB-9 1'

Laboratory: Midland
Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5035
QC Batch: 72339 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.57	mg/Kg	1	2.00	78	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.47	mg/Kg	1	2.00	74	38.4 - 157

Sample: 238930 - SB-9 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238930 - SB-9 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72147	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61829				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 238930 - SB-9 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.64	mg/Kg	1	2.00	82	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.48	mg/Kg	1	2.00	74	42 - 159

Sample: 238931 - SB-9 3'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-03	Analyzed By:	AR
QC Batch:	72274	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61886				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238932 - SB-9 5'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72274	Date Analyzed:	2010-08-03
Prep Batch:	61886	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238933 - SB-9 7'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72320	Date Analyzed:	2010-08-04
Prep Batch:	61887	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238934 - SB-9 10'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72320	Date Analyzed:	2010-08-04
Prep Batch:	61887	Sample Preparation:	2010-07-30
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238935 - SB-10 1'

Laboratory:	Midland		
Analysis:	BTEX	Analytical Method:	S 8021B
QC Batch:	72339	Date Analyzed:	2010-07-29
Prep Batch:	61861	Sample Preparation:	2010-07-29
		Prep Method:	S 5035
		Analyzed By:	AG
		Prepared By:	AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0407	mg/Kg	1	0.0200
Toluene		<0.0200	mg/Kg	1	0.0200

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sample 238935 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Ethylbenzene		<0.0200	mg/Kg	1	0.0200
Xylene		<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.51	mg/Kg	1	2.00	76	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.42	mg/Kg	1	2.00	71	38.4 - 157

Sample: 238935 - SB-10 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61887 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238935 - SB-10 1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		99.5	mg/Kg	1	100	100	70 - 130

Sample: 238935 - SB-10 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.56	mg/Kg	1	2.00	78	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.43	mg/Kg	1	2.00	72	42 - 159

Sample: 238936 - SB-10 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72320
Prep Batch: 61887

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238937 - SB-10 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72320
Prep Batch: 61887

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238938 - SB-10 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72320
Prep Batch: 61887

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238939 - SB-10 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72320	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61887				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238940 - SB-11 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72320	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61887				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238940 - SB-11 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72147	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61829				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		102	mg/Kg	1	100	102	70 - 130

Sample: 238940 - SB-11 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.08	mg/Kg	1	2.00	104	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.91	mg/Kg	1	2.00	96	42 - 159

Sample: 238941 - SB-11 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72320
Prep Batch: 61887

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238942 - SB-11 5'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72320
Prep Batch: 61887

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		823	mg/Kg	50	4.00

Sample: 238943 - SB-11 7'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72321
Prep Batch: 61888

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-07-30

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		12700	mg/Kg	100	4.00

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Sample: 238944 - SB-11 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		6150	mg/Kg	100	4.00

Sample: 238945 - SB-11 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1210	mg/Kg	100	4.00

Sample: 238946 - SB-11 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		782	mg/Kg	50	4.00

Sample: 238947 - SB-11 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72321	Sample Preparation:	2010-07-30	Prepared By:	AR
Prep Batch:	61888				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238948 - SB-11 30'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238949 - SB-12 1'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238949 - SB-12 1'

Laboratory: Midland
Analysis: TPH DRO - NEW Analytical Method: S 8015 D Prep Method: N/A
QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 Sample Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 238949 - SB-12 1'

Laboratory: Midland
Analysis: TPH GRO Analytical Method: S 8015 D Prep Method: S 5035
QC Batch: 72182 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 Sample Preparation: 2010-07-29 Prepared By: AG

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Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.47	mg/Kg	1	2.00	74	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.38	mg/Kg	1	2.00	69	42 - 159

Sample: 238950 - SB-12 3'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238951 - SB-12 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5930	mg/Kg	100	4.00

Sample: 238952 - SB-12 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 Sample Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		11200	mg/Kg	100	4.00

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Sample: 238953 - SB-12 10'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4460	mg/Kg	100	4.00

Sample: 238954 - SB-12 15'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238955 - SB-12 20'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238956 - SB-12 25'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238957 - SB-13 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238957 - SB-13 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72147	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61829				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		100	mg/Kg	1	100	100	70 - 130

Sample: 238957 - SB-13 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.93	mg/Kg	1	2.00	96	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	1	2.00	90	42 - 159

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Sample: 238958 - SB-13 3'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238959 - SB-13 5'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10600	mg/Kg	100	4.00

Sample: 238960 - SB-13 7'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		7190	mg/Kg	100	4.00

Sample: 238961 - SB-13 10'

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	72322	Date Analyzed:	2010-08-04
Prep Batch:	61889	Sample Preparation:	2010-08-03
		Prep Method:	N/A
		Analyzed By:	AR
		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2500	mg/Kg	100	4.00

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Sample: 238962 - SB-13 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72322	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61889				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		919	mg/Kg	50	4.00

Sample: 238963 - SB-13 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238964 - SB-13 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238965 - SB-13 30'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238966 - SB-14 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		344	mg/Kg	50	4.00

Sample: 238966 - SB-14 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2010-07-28	Analyzed By:	kg
QC Batch:	72146	Sample Preparation:	2010-07-28	Prepared By:	kg
Prep Batch:	61828				

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.8	mg/Kg	1	100	94	70 - 130

Sample: 238966 - SB-14 1'

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2010-07-29	Analyzed By:	AG
QC Batch:	72182	Sample Preparation:	2010-07-29	Prepared By:	AG
Prep Batch:	61861				

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	2.00	56	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	2.00	53	42 - 159

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Sample: 238967 - SB-14 3'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		539	mg/Kg	50	4.00

Sample: 238968 - SB-14 5'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		4800	mg/Kg	100	4.00

Sample: 238969 - SB-14 7'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		906	mg/Kg	100	4.00

Sample: 238970 - SB-14 10'

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 Sample Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1340	mg/Kg	100	4.00

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Sample: 238971 - SB-14 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		496	mg/Kg	50	4.00

Sample: 238972 - SB-14 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72323	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61964				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		315	mg/Kg	50	4.00

Sample: 238973 - SB-14 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238974 - SB-15 1'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238974 - SB-15 1'

Laboratory: Midland
Analysis: TPH DRO - NEW
QC Batch: 72146
Prep Batch: 61828

Analytical Method: S 8015 D
Date Analyzed: 2010-07-28
Sample Preparation: 2010-07-28

Prep Method: N/A
Analyzed By: kg
Prepared By: kg

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		92.2	mg/Kg	1	100	92	70 - 130

Sample: 238974 - SB-15 1'

Laboratory: Midland
Analysis: TPH GRO
QC Batch: 72182
Prep Batch: 61861

Analytical Method: S 8015 D
Date Analyzed: 2010-07-29
Sample Preparation: 2010-07-29

Prep Method: S 5035
Analyzed By: AG
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<2.00	mg/Kg	1	2.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.984	mg/Kg	1	2.00	49	48.5 - 152
4-Bromofluorobenzene (4-BFB)		0.920	mg/Kg	1	2.00	46	42 - 159

Sample: 238975 - SB-15 3'

Laboratory: Midland
Analysis: Chloride (Titration)
QC Batch: 72325
Prep Batch: 61965

Analytical Method: SM 4500-Cl B
Date Analyzed: 2010-08-04
Sample Preparation: 2010-08-03

Prep Method: N/A
Analyzed By: AR
Prepared By: AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 238976 - SB-15 5'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		798	mg/Kg	50	4.00

Sample: 238977 - SB-15 7'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		527	mg/Kg	50	4.00

Sample: 238978 - SB-15 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1040	mg/Kg	100	4.00

Sample: 238979 - SB-15 15'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1100	mg/Kg	100	4.00

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Sample: 238980 - SB-15 20'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1010	mg/Kg	100	4.00

Sample: 238981 - SB-15 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		252	mg/Kg	50	4.00

Sample: 238982 - SB-15 30'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72325	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61965				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 238983 - SB-2 25'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2010-08-04	Analyzed By:	AR
QC Batch:	72326	Sample Preparation:	2010-08-03	Prepared By:	AR
Prep Batch:	61966				

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Method Blank (1) QC Batch: 72137

QC Batch: 72137
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0150	mg/Kg	0.02
Toluene		<0.00950	mg/Kg	0.02
Ethylbenzene		<0.0106	mg/Kg	0.02
Xylene		<0.00930	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.75	mg/Kg	1	2.00	88	55.4 - 132

Method Blank (1) QC Batch: 72138

QC Batch: 72138
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<1.65	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.07	mg/Kg	1	2.00	104	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.77	mg/Kg	1	2.00	88	52.4 - 130

Method Blank (1) QC Batch: 72146

QC Batch: 72146
Prep Batch: 61828

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		90.1	mg/Kg	1	100	90	70 - 130

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Method Blank (1) QC Batch: 72147

QC Batch: 72147 Date Analyzed: 2010-07-28 Analyzed By: kg
Prep Batch: 61829 QC Preparation: 2010-07-28 Prepared By: kg

Parameter	Flag	MDL Result	Units	RL
DRO		<14.5	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		83.7	mg/Kg	1	100	84	70 - 130

Method Blank (1) QC Batch: 72166

QC Batch: 72166 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61836 QC Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72167

QC Batch: 72167 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61837 QC Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72168

QC Batch: 72168 Date Analyzed: 2010-07-29 Analyzed By: AR
Prep Batch: 61838 QC Preparation: 2010-07-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

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Method Blank (1) QC Batch: 72182

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
GRO		<1.65	mg/Kg	2

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	67.6 - 150
4-Bromofluorobenzene (4-BFB)		1.67	mg/Kg	1	2.00	84	52.4 - 130

Method Blank (1) QC Batch: 72250

QC Batch: 72250
Prep Batch: 61839

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72251

QC Batch: 72251
Prep Batch: 61884

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72273

QC Batch: 72273
Prep Batch: 61885

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

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Method Blank (1) QC Batch: 72274

QC Batch: 72274 Date Analyzed: 2010-08-03 Analyzed By: AR
Prep Batch: 61886 QC Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72320

QC Batch: 72320 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61887 QC Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72321

QC Batch: 72321 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61888 QC Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72322

QC Batch: 72322 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61889 QC Preparation: 2010-07-30 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72323

QC Batch: 72323 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61964 QC Preparation: 2010-08-03 Prepared By: AR

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Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72325

QC Batch: 72325 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61965 QC Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72326

QC Batch: 72326 Date Analyzed: 2010-08-04 Analyzed By: AR
Prep Batch: 61966 QC Preparation: 2010-08-03 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<2.18	mg/Kg	4

Method Blank (1) QC Batch: 72339

QC Batch: 72339 Date Analyzed: 2010-07-29 Analyzed By: AG
Prep Batch: 61861 QC Preparation: 2010-07-29 Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.0150	mg/Kg	0.02
Toluene		<0.00950	mg/Kg	0.02
Ethylbenzene		<0.0106	mg/Kg	0.02
Xylene		<0.00930	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.91	mg/Kg	1	2.00	96	66.6 - 122
4-Bromofluorobenzene (4-BFB)		1.66	mg/Kg	1	2.00	83	55.4 - 132

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Laboratory Control Spike (LCS-1)

QC Batch: 72137
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.00	mg/Kg	1	2.00	<0.0150	100	81.9 - 108
Toluene	1.98	mg/Kg	1	2.00	<0.00950	99	81.9 - 107
Ethylbenzene	1.95	mg/Kg	1	2.00	<0.0106	98	78.4 - 107
Xylene	5.86	mg/Kg	1	6.00	<0.00930	98	79.1 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.99	mg/Kg	1	2.00	<0.0150	100	81.9 - 108	0	20
Toluene	1.98	mg/Kg	1	2.00	<0.00950	99	81.9 - 107	0	20
Ethylbenzene	1.94	mg/Kg	1	2.00	<0.0106	97	78.4 - 107	0	20
Xylene	5.86	mg/Kg	1	6.00	<0.00930	98	79.1 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.84	1.80	mg/Kg	1	2.00	92	90	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.78	1.80	mg/Kg	1	2.00	89	90	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 72138
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	69.9 - 95.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	15.9	mg/Kg	1	20.0	<1.65	80	69.9 - 95.4	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.09	2.05	mg/Kg	1	2.00	104	102	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.93	1.90	mg/Kg	1	2.00	96	95	68.2 - 132

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Laboratory Control Spike (LCS-1)

QC Batch: 72146
Prep Batch: 61828

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	251	mg/Kg	1	250	<14.5	100	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	260	mg/Kg	1	250	<14.5	104	57.4 - 133.4	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	97.8	99.6	mg/Kg	1	100	98	100	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72147
Prep Batch: 61829

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	255	mg/Kg	1	250	<14.5	102	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	250	mg/Kg	1	250	<14.5	100	57.4 - 133.4	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	99.4	99.8	mg/Kg	1	100	99	100	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 72166
Prep Batch: 61836

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.4	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72167
Prep Batch: 61837

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.0	mg/Kg	1	100	<2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72168
Prep Batch: 61838

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.8	mg/Kg	1	100	<2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

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Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	69.9 - 95.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	15.0	mg/Kg	1	20.0	<1.65	75	69.9 - 95.4	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.07	1.95	mg/Kg	1	2.00	104	98	61.9 - 142
4-Bromofluorobenzene (4-BFB)	1.83	1.74	mg/Kg	1	2.00	92	87	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 72250
Prep Batch: 61839

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.6	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72251
Prep Batch: 61884

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	95.8	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 72273
Prep Batch: 61885

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.5	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	105	mg/Kg	1	100	<2.18	105	85 - 115	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72274
Prep Batch: 61886

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.5	mg/Kg	1	100	<2.18	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72320
Prep Batch: 61887

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.9	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 72321
Prep Batch: 61888

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<2.18	104	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72322
Prep Batch: 61889

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.2	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	101	mg/Kg	1	100	<2.18	101	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72323
Prep Batch: 61964

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.9	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	102	mg/Kg	1	100	<2.18	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Laboratory Control Spike (LCS-1)

QC Batch: 72325
Prep Batch: 61965

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.4	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	101	mg/Kg	1	100	<2.18	101	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	97.8	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	103	mg/Kg	1	100	<2.18	103	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 72339
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.01	mg/Kg	1	2.00	<0.0150	100	81.9 - 108
Toluene	1.96	mg/Kg	1	2.00	<0.00950	98	81.9 - 107
Ethylbenzene	1.86	mg/Kg	1	2.00	<0.0106	93	78.4 - 107
Xylene	5.59	mg/Kg	1	6.00	<0.00930	93	79.1 - 107

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.98	mg/Kg	1	2.00	<0.0150	99	81.9 - 108	2	20
Toluene	1.94	mg/Kg	1	2.00	<0.00950	97	81.9 - 107	1	20
Ethylbenzene	1.87	mg/Kg	1	2.00	<0.0106	94	78.4 - 107	0	20
Xylene	5.62	mg/Kg	1	6.00	<0.00930	94	79.1 - 107	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.81	1.91	mg/Kg	1	2.00	90	96	70.2 - 114
4-Bromofluorobenzene (4-BFB)	1.70	1.81	mg/Kg	1	2.00	85	90	69.8 - 121

Matrix Spike (MS-1) Spiked Sample: 238784

QC Batch: 72137
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.09	mg/Kg	1	2.00	0.031	103	80.5 - 112
Toluene	2.06	mg/Kg	1	2.00	<0.00950	103	82.4 - 113
Ethylbenzene	2.05	mg/Kg	1	2.00	<0.0106	102	83.9 - 114
Xylene	6.20	mg/Kg	1	6.00	<0.00930	103	84 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.21	mg/Kg	1	2.00	0.031	109	80.5 - 112	6	20
Toluene	2.20	mg/Kg	1	2.00	<0.00950	110	82.4 - 113	7	20
Ethylbenzene	2.21	mg/Kg	1	2.00	<0.0106	110	83.9 - 114	8	20
Xylene	6.69	mg/Kg	1	6.00	<0.00930	112	84 - 114	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.17	1.60	mg/Kg	1	2	58	80	41.3 - 117
4-Bromofluorobenzene (4-BFB)	1.21	1.59	mg/Kg	1	2	60	80	35.5 - 129

Matrix Spike (MS-1) Spiked Sample: 238921

QC Batch: 72138
Prep Batch: 61819

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: AG
Prepared By: AG

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.6	mg/Kg	1	20.0	<1.65	83	61.8 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.5	mg/Kg	1	20.0	<1.65	82	61.8 - 114	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.20	1.77	mg/Kg	1	2	60	88	50 - 162
4-Bromofluorobenzene (4-BFB)	1.28	1.81	mg/Kg	1	2	64	90	50 - 162

Matrix Spike (MS-1) Spiked Sample: 238974

QC Batch: 72146
Prep Batch: 61828

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	218	mg/Kg	1	250	<14.5	87	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	219	mg/Kg	1	250	<14.5	88	35.2 - 167.1	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	89.0	88.1	mg/Kg	1	100	89	88	70 - 130

Matrix Spike (MS-1) Spiked Sample: 238957

QC Batch: 72147
Prep Batch: 61829

Date Analyzed: 2010-07-28
QC Preparation: 2010-07-28

Analyzed By: kg
Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	242	mg/Kg	1	250	<14.5	97	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	250	mg/Kg	1	250	<14.5	100	35.2 - 167.1	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	95.6	99.9	mg/Kg	1	100	96	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 238872

QC Batch: 72166
Prep Batch: 61836

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	23700	mg/Kg	100	10000	13500	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	24200	mg/Kg	100	10000	13500	107	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238882

QC Batch: 72167
Prep Batch: 61837

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12700	mg/Kg	100	10000	2890	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12900	mg/Kg	100	10000	2890	100	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238892

QC Batch: 72168
Prep Batch: 61838

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10600	mg/Kg	100	10000	637	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10800	mg/Kg	100	10000	637	102	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239133

QC Batch: 72182
Prep Batch: 61861

Date Analyzed: 2010-07-29
QC Preparation: 2010-07-29

Analyzed By: AG
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	17.2	mg/Kg	1	20.0	<1.65	86	61.8 - 114

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.7	mg/Kg	1	20.0	<1.65	84	61.8 - 114	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.06	1.60	mg/Kg	1	2	53	80	50 - 162
4-Bromofluorobenzene (4-BFB)	1.08	1.57	mg/Kg	1	2	54	78	50 - 162

Matrix Spike (MS-1) Spiked Sample: 238902

QC Batch: 72250
Prep Batch: 61839

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-29

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	20200	mg/Kg	100	10000	10200	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	20500	mg/Kg	100	10000	10200	103	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 238912

QC Batch: 72251
Prep Batch: 61884

Date Analyzed: 2010-08-02
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10500	mg/Kg	100	10000	788	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11200	mg/Kg	100	10000	788	104	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238922

QC Batch: 72273
Prep Batch: 61885

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10400	mg/Kg	100	10000	254	101	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10600	mg/Kg	100	10000	254	103	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238932

QC Batch: 72274
Prep Batch: 61886

Date Analyzed: 2010-08-03
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param.	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	mg/Kg	100	10000	254	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10400	mg/Kg	100	10000	254	104	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 238942

QC Batch: 72320
Prep Batch: 61887

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11200	mg/Kg	100	10000	823	104	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11700	mg/Kg	100	10000	823	109	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238952

QC Batch: 72321
Prep Batch: 61888

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	21500	mg/Kg	100	10000	11200	103	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	21900	mg/Kg	100	10000	11200	107	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238962

QC Batch: 72322
Prep Batch: 61889

Date Analyzed: 2010-08-04
QC Preparation: 2010-07-30

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11100	mg/Kg	100	10000	919	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11700	mg/Kg	100	10000	919	108	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Matrix Spike (MS-1) Spiked Sample: 238972

QC Batch: 72323
Prep Batch: 61964

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10100	mg/Kg	100	10000	315	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10500	mg/Kg	100	10000	315	102	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 238982

QC Batch: 72325
Prep Batch: 61965

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10200	mg/Kg	100	10000	<218	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10400	mg/Kg	100	10000	<218	102	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 239104

QC Batch: 72326
Prep Batch: 61966

Date Analyzed: 2010-08-04
QC Preparation: 2010-08-03

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	9720	mg/Kg	100	10000	<218	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	10100	mg/Kg	100	10000	<218	100	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Standard (CCV-1)

QC Batch: 72137

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0979	98	80 - 120	2010-07-28
Toluene		mg/Kg	0.100	0.0972	97	80 - 120	2010-07-28
Ethylbenzene		mg/Kg	0.100	0.0925	92	80 - 120	2010-07-28
Xylene		mg/Kg	0.300	0.282	94	80 - 120	2010-07-28

Standard (CCV-2)

QC Batch: 72137

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0970	97	80 - 120	2010-07-28
Toluene		mg/Kg	0.100	0.0959	96	80 - 120	2010-07-28
Ethylbenzene		mg/Kg	0.100	0.0929	93	80 - 120	2010-07-28
Xylene		mg/Kg	0.300	0.280	93	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72137

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.103	103	80 - 120	2010-07-28
Toluene		mg/Kg	0.100	0.100	100	80 - 120	2010-07-28
Ethylbenzene		mg/Kg	0.100	0.0942	94	80 - 120	2010-07-28
Xylene		mg/Kg	0.300	0.284	95	80 - 120	2010-07-28

Standard (CCV-1)

QC Batch: 72138

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.901	90	80 - 120	2010-07-28

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Standard (CCV-2)

QC Batch: 72138

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.927	93	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72138

Date Analyzed: 2010-07-28

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.896	90	80 - 120	2010-07-28

Standard (CCV-2)

QC Batch: 72146

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	231	92	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72146

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	238	95	80 - 120	2010-07-28

Standard (CCV-1)

QC Batch: 72147

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	235	94	80 - 120	2010-07-28

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Standard (CCV-2)

QC Batch: 72147

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	286	114	80 - 120	2010-07-28

Standard (CCV-3)

QC Batch: 72147

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	283	113	80 - 120	2010-07-28

Standard (CCV-4)

QC Batch: 72147

Date Analyzed: 2010-07-28

Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	275	110	80 - 120	2010-07-28

Standard (ICV-1)

QC Batch: 72166

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72166

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-07-29

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Standard (ICV-1)

QC Batch: 72167

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72167

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-07-29

Standard (ICV-1)

QC Batch: 72168

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.9	98	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72168

Date Analyzed: 2010-07-29

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-07-29

Standard (CCV-1)

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.986	99	80 - 120	2010-07-29

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Standard (CCV-2)

QC Batch: 72182

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.910	91	80 - 120	2010-07-29

Standard (ICV-1)

QC Batch: 72250

Date Analyzed: 2010-08-02

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-02

Standard (CCV-1)

QC Batch: 72250

Date Analyzed: 2010-08-02

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.6	98	85 - 115	2010-08-02

Standard (ICV-1)

QC Batch: 72251

Date Analyzed: 2010-08-02

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	96.3	96	85 - 115	2010-08-02

Standard (CCV-1)

QC Batch: 72251

Date Analyzed: 2010-08-02

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2010-08-02

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Standard (ICV-1)

QC Batch: 72273

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	104	104	85 - 115	2010-08-03

Standard (CCV-1)

QC Batch: 72273

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	95.9	96	85 - 115	2010-08-03

Standard (ICV-1)

QC Batch: 72274

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.8	98	85 - 115	2010-08-03

Standard (CCV-1)

QC Batch: 72274

Date Analyzed: 2010-08-03

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-03

Standard (ICV-1)

QC Batch: 72320

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	103	103	85 - 115	2010-08-04

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Standard (CCV-1)

QC Batch: 72320

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.3	97	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72321

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	97.8	98	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72321

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72322

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.8	100	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72322

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2010-08-04

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Standard (ICV-1)

QC Batch: 72323

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.3	98	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72323

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72325

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72325

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-08-04

Standard (ICV-1)

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.7	99	85 - 115	2010-08-04

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Standard (CCV-1)

QC Batch: 72326

Date Analyzed: 2010-08-04

Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-08-04

Standard (CCV-1)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0963	96	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.0945	94	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0887	89	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.268	89	80 - 120	2010-07-29

Standard (CCV-2)

QC Batch: 72339

Date Analyzed: 2010-07-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	80 - 120	2010-07-29
Toluene		mg/Kg	0.100	0.102	102	80 - 120	2010-07-29
Ethylbenzene		mg/Kg	0.100	0.0975	98	80 - 120	2010-07-29
Xylene		mg/Kg	0.300	0.293	98	80 - 120	2010-07-29

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: Jke Tawarz	
PROJECT NO.: 1146400560		PROJECT NAME: Prognosis SWD 8" Line	
LAB I.D. NUMBER	DATE	TIME	SAMPLE IDENTIFICATION
238803	7/21		SB-1 1'
864			SB-1 3'
865			SB-1 5'
866			SB-1 7'
867			SB-1 10'
868			SB-1 15'
869			SB-1 20'
870			SB-2 1'
871			SB-2 3'
872			SB-2 5'

RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE: 7/26/10	TIME: 10:20	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE: 7/27/10	TIME: 15:00
RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE: 7/27/10	TIME: 3:02 PM	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE: 7/27/10	TIME: 15:00
RELINQUISHED BY: (Signature) <i>[Signature]</i>	DATE: 7/27/10	TIME: 3:02 PM	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE: 7/27/10	TIME: 15:00
RECEIVING LABORATORY: TRACE			REMARKS: IF TPH 7,000 mg/kg run deeper samples		
ADDRESS: Midland			STATE: TX		
CONTACT: PH 777-1111			PHONE: 777-1111		

ANALYSIS REQUEST (Circle or Specify Method No.)	
PAGE: 1	OF: 3

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. 8270/825	PCB's 8080/608	Post. 808/608	Chlordane	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
TPH 8015 MOD TX1005 (Ext. to C35)														
BTEX 8021B														

SAMPLE CONDITION WHEN RECEIVED: 3.0% 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.	

WO # : 10072810

Analysis Request of Chain of Custody Record

PAGE: 3 OF: 12

ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG SITE MANAGER: Ike Tavaraz

PROJECT NO.: 1146400560 PROJECT NAME: COG / Pronghorn SWD 8" Line

LAB I.D. NUMBER: 883 TIME: 7/22 SAMPLE IDENTIFICATION: Len Co., NM

LAB I.D. NUMBER	DATE	TIME	PRESERVATIVE METHOD			NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE
			MATRIX	COMP	GRAB						
883	7/22		S	X	X	SB-3	20'				
884						SB-3	25'				
885						SB-4	1'				
886						SB-4	3'				
887						SB-4	5'				
888						SB-4	7'				
889						SB-4	10'				
890						SB-4	15'				
891						SB-4	20'				
892						SB-5	1' (2' BEB)				

RELINQUISHED BY: (Signature) [Signature] Date: 7/22/10 Time: 10:20
RECEIVED BY: (Signature) [Signature] Date: 7/27/10 Time: 15:00

RECEIVING LABORATORY: TRACE ADDRESS: Midland STATE: TX ZIP: PHONE: DATE: 7/27/10 TIME: 15:00

SAMPLE CONDITION WHEN RECEIVED: Intact REMARKS: If TPH > 1000 mg/kg Run deeper samples

13.2% intact
Run BTEX on the (8) Highest TPH

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. 8270/825	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Al)	PLM (Asbestos)	Major Anions/Cations, PH, TDS
TPH 8015 MOD TX1005 (Ext. to C36)														
BTEX 8021B														

SAMPLED BY: (Print & Initial) Kim Date: 7/26/10 Time:
SAMPLE SHIPPED BY: (Circle) FEDEx BUS UPS
OTHER: AND DELIVERED
TETRA TECH CONTACT PERSON: Ike Tavaraz

Results by:
RUSH Charges Authorized: Yes No

WO #: 10072810

Analysis Request of Chain of Custody Record

PAGE: 4 OF 12



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

CLIENT NAME: COG		SITE MANAGER: Ike Tavaroz		PROJECT NAME: 026/Pronghorn SWD 8" Line		PRESERVATIVE METHOD	
PROJECT NO.: 114-6400560		LAB I.D. NUMBER		DATE		TIME	
LAB I.D. NUMBER		DATE		TIME		PRESERVATIVE METHOD	
LAB I.D. NUMBER		DATE		TIME		PRESERVATIVE METHOD	
228893	7/22	5	X	SB-5 3' (2' BED)	1	HCL	NONE
894		/	/	SB-5 5' (2' BED)	1	HCL	ICE
896		/	/	SB-5 7' (2' BED)	1	HCL	ICE
897		/	/	SB-5 10' (2' BED)	1	HCL	ICE
898		/	/	SB-5 15' (2' BED)	1	HCL	ICE
899		/	/	SB-5 20' (2' BED)	1	HCL	ICE
900		/	/	SB-5 25' (2' BED)	1	HCL	ICE
901		/	/	SB-6 1' (2' BED)	1	HCL	ICE
902		/	/	SB-6 3' (2' BED)	1	HCL	ICE

RELINQUISHED BY (Signature):		RECEIVED BY (Signature):	
RELINQUISHED BY (Signature):		RECEIVED BY (Signature):	
RELINQUISHED BY (Signature):		RECEIVED BY (Signature):	
RECEIVING LABORATORY: TRACE		RECEIVED BY (Signature):	
ADDRESS: Midland		DATE: 7-27-10	
CITY: Midland		TIME: 15:00	
CONTACT: IT		TIME: 15:00	
STATE: TX		TIME: 15:00	
ZIP: 79705		TIME: 15:00	
PHONE: (432) 682-4559		TIME: 15:00	
FAX: (432) 682-3946		TIME: 15:00	
REMARKS: If TPAH > 1,000 mg/kg Run deeper samples		REMARKS: If TPAH > 1,000 mg/kg Run deeper samples	
SAMPLE CONDITION WHEN RECEIVED: 3.2° intact		SAMPLE CONDITION WHEN RECEIVED: 3.2° intact	

ANALYSIS REQUEST (Circle or Specify Method No.)	
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	
Post. 808/608	
Chloride	
Gamma Spec.	
Alpha Beta (Air)	
PLM (Asbestos)	
Major Anions/Cations, pH, TDS	

SAMPLED BY: (Print & Initial)	
KIM	
Date: 7/26/10	
Time: 15:00	
SAMPLE SHIPPED BY: (Circle)	
FEDEX	
BUS	
UPS	
OTHER:	
Results by:	
Ike Tavaroz	
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.

0. 10/10/10

Analysis Request of Chain of Custody Record

PAGE: 5 OF: 12

ANALYSIS REQUEST
(Circle or Specify Method)

TETRA TECH

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

CLIENT NAME: C06		SITE MANAGER: Ike Tenant		PROJECT NAME: C06 / Pronghorn SWD 8" Line		PROJECT NO.: 114-G100560	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	
238903	7/62		S		X	SB-6	5' (2' BEB)
904						SB-6	7' (2' BEB)
905						SB-6	10' (2' BEB)
906						SB-6	15' (2' BEB)
907						SB-6	20' (2' BEB)
908						SB-6	25' (2' BEB)
909						SB-6	30' (2' DEB)
910						SB-6	40' (2' DEB)
911						SD-7	1' (2' DEB)
912						SD-7	3' (2' BEB)

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

RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)	
Date:	Time:	Date:	Time:
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10

RECEIVING LABORATORY: TRACE		RECEIVED BY: (Signature)	
ADDRESS:	STATE:	Date:	Time:
City: Midland	TX	7/6/10	10:10
CONTACT:	PHONE:		

RESULTS BY:		RESULTS BY:	
DATE:	TIME:	DATE:	TIME:
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10
7/6/10	10:10	7/6/10	10:10

RUSH CHARGES AUTHORIZED:		RUSH CHARGES AUTHORIZED:	
YES	NO	YES	NO

REMARKS: IF TPH > 1,000 mg/kg Run deep samples

3.2% 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.

Run BTEX on the (8) Highest TPH

WAD #: 0072810

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: C06		SITE MANAGER: Ike Taranoff		PROJECT NAME: C06 / Proghorn 3rd 8" Line		PROJECT NO.: 114-6400560		PRESERVATIVE METHOD	
LAB I.D. NUMBER		DATE	TIME	MATRIX	COMR	GRAB	SAMPLE IDENTIFICATION		
288913	7/22			S	X		SB-7 5' (2' BED)	1	
914							SB-7 7' (2' BED)	1	
915							SB-7 10' (2' BED)	1	
916							SB-7 15' (2' BED)	1	
917							SB-7 20' (2' BED)	1	
918							SB-7 25' (2' BED)	1	
919							SB-7 30' (2' BED)	1	
920							SB-7 40' (2' BED)	1	
921							SB-8 1' (2' BED)	1	
922							SB-8 3' (2' BED)	1	

RELINQUISHED BY: (Signature)		Date: 7/24/10	Time: 10:30	RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
RELINQUISHED BY: (Signature)		Date: 7/23/10	Time: 3:00 PM	RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
RELINQUISHED BY: (Signature)		Date: 7/23/10	Time: 3:00 PM	RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
RECEIVING LABORATORY: TETRA TECH				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
ADDRESS: Midland				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
CITY: Midland				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
CONTACT: TETRA TECH				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
STATE: TX				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
ZIP: 79701				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
PHONE: (432) 682-4559				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
FAX: (432) 682-3946				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
SAMPLE CONDITION WHEN RECEIVED:				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
REMARKS: If TPH > 1,000 mg/kg Run deeper samples				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00
Run BTEX on the (8) Highest TPH				RECEIVED BY: (Signature)		Date: 7/27/10	Time: 15:00

ANALYSIS REQUEST

(Circle or Specify Method No.)

PAH 8270	
PCRA 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. 8270/825	
PCBs 8080/608	
Post. 808/608	
Chloride	
Gamma Spec.	
Alpha Beta (Air)	
PLM (Asbestos)	
Major Anions/Cations, pH, TDS	

SAMPLED BY: (Print & Initial) Kim		Date: 7/20/10	Time: 12:40
SAMPLE SHIPPED BY: (Circle) FEDEX		AIRBILL #: 73040	
HAND DELIVERED		OTHER: BUS	
TETRA TECH CONTACT PERSON: Ike Taranoff		Results by:	
RUSH Charges Authorized:		Yes	No

Analysis Request of Chain of Custody Record



TETRA TECH
1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3

CLIENT NAME: 606		SITE MANAGER: Ike Tavaraz	
PROJECT NO.: 114-6400562		PROJECT NAME: COG / Proghon SWD 8" Line	
LAB I.D. NUMBER	DATE TIME	MATRIX	COMPR.
28923	7/22	S	X SB-8 5' (2' DEB)
924		/	SB-8 7' (2' DEB)
926		/	SB-8 10' (2' DEB)
926		/	SB-8 15' (2' DEB)
927		/	SB-8 20' (2' DEB)
928		/	SB-8 25' (2' DEB)
929		/	SB-8 30' (2' DEB)
930	7/23	/	SB-9 1'
931		/	SB-9 3'
932		/	SB-9 5'

RELINQUISHED BY: (Signature) _____ Date: 7/22/10 Time: 12:20

RELINQUISHED BY: (Signature) _____ Date: 7/23/10 Time: 3:00 PM

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

RECEIVED BY: (Signature) _____ Date: 7-27-10 Time: 15:04

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

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

RECEIVING LABORATORY: TRACE ADDRESS: Milled STATE: TX ZIP: PHONE:

CONTACT: DATE: 7-27-10 TIME: 15:04

REMARKS: IF TPH > 1,000 mg/kg Run deeper samples

3.8% 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.

Run BTEX on the (8) Highest TPH

110# : 100728/0

Analysis Request of Chain of Custody Record

PAGE: 0 OF: 12

ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COG		PROJECT NAME: 114-6400560		SITE MANAGER: Ice Taveraz		PRESERVATIVE METHOD		NUMBER OF CONTAINERS		FILTERED (Y/N)		HCL		HNO3		ICE		NONE	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION													
238953	7/23		S		X	SB-12	10'	1											
954						SB-12	15'	1											
955						SB-12	20'	1											
956						SB-12	25'	1											
957						SD-13	1'	1											
958						SD-13	3'	1											
959						SD-13	5'	1											
960						SD-13	7'	1											
961						SD-13	10'	1											
962						SD-13	15'	1											

RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE: 7/26/10		TIME: 10:30	
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE: 7-26-10		TIME: 3:00 PM	
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE:		TIME:	
RECEIVING LABORATORY: TRACE		RECEIVED BY: (Signature)		DATE: 7-29-10		TIME: 5:00	
ADDRESS: Midland		STATE: TX		ZIP:		PHONE:	
CONTACT:		REMARKS: IF TPH > 1,000 mg/kg Run deeper samples		Run RTEX on the 10' Hshest TPH			
SAMPLE CONDITION WHEN RECEIVED: 3.2c intact		LABORATORY: Ice Taveraz		RUSH CHARGES AUTHORIZED: Yes		No	

Analysis Request of Chain of Custody Record

LAB #1: 10072810



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:

COC

SITE MANAGER:

Ike Tawert

PROJECT NO.:

114-6400560

PROJECT NAME:

Pronghorn SUD 8" Line

LAB I.D. NUMBER

2310

DATE

7/21

TIME

5

MATRIX

X

COMP.

SB-1 1'

GRAB

SB-1 3'

SAMPLE IDENTIFICATION

Len Co., NM

NUMBER OF CONTAINERS

1

FILTERED (Y/N)

1

HCL

X

HNO3

X

ICE

X

NONE

X

BTX 8021B

X

TPH 8015 MOD.

X

PAH 8270

X

RCRA Metals Ag As Ba Cd Cr Pb Hg Se

X

TCLP Metals Ag As Ba Cd Vr Pd Hg Se

X

TCLP Volatiles

X

TCLP Semi Volatiles

X

RCI

X

GC/MS Vol. 8240/8280/824

X

GC/MS Semi. Vol. 8270/825

X

PCB's 8080/808

X

Pest. 808/808

X

Chloride

X

Gamma Spec.

X

Alpha Beta (Air)

X

PLM (Asbestos)

X

Major Anions/Cations, pH, TDS

X

238803	7/21	5	X	SB-1 1'	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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RECEIVING LABORATORY:

STATE: TX

ZIP: 79705

DATE: 7-24-10

TIME: 15:00

REMARKS:

IF TPH > 1000 mg/kg len deeper samples

Run BTEX ON THE (2) DEEPEST TPT

LABORATORY RETAINS YELLOW COPY - Return Original copy to Tetra Tech & Project Manager retains Pink copy - Accounting receives Gold copy.

RECEIVED BY: (Signature)

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DATE: 7-24-10

TIME: 15:00

Lot #: 10072810

PAGE: 2 OF: 12



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

SITE MANAGER:

Like Towne

PROJECT NAME:

119-6420360

PROJECT NAME: Dringhorn SWD 8" Line

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Major Anions/Cations, pH, TDS

ANALYSIS REQUEST
(Circle or Specify Method No.)

874		SB-2	10'	1	X		X
875		SB-2	15'	1	X		X
876		SB-2	20'	1	X		X
877	7/22	SB-3	1'	1	X	X	X
878		SB-3	3'	1	X		X
879		SB-3	5'	1	X		X
880		SB-3	7'	1	X		X
881		SB-3	10'	1	X		X
882		SB-3	15'	1	X		X

26/10

1000

27905

No

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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 the (8) Hukert TPH

100 #: 100-72810

131



(432) 682-4559 • Fax (432) 682-3946

SITE MANAGER:

The Tower

PROJECT NAME:

CGG/Hongkong STD 8" Line

MATRIX
OMP.
RAB

SAMPLE IDENTIFICATION

FILTERED (Y/N)

HNO₃

ICE

ICE

NONI

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 Vb 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

ANALYSIS REQUEST
(Circle or Specify Method No.)

1287 (2/13/68)

RECEIVED BY: (Signature) _____
Date: 7/22/10

RECEIVED BY: (Signature) _____
Date: 7/26/10

SAMPLED BY: (Print & Initials) Kim
Date: 7/26/10

DATE RECEIVED BY: (Printed)	DATE:	12-10-88
RECEIVED BY: (Signed)	DATE:	1-7-89
SAMPLE SHIPPED BY: (Signed)	DATE:	
ADDDI #		

[illegible]

RECEIVED BY: (Signature) _____ Date: _____

RECEIVED BY: (Signature) _____ Date: _____

WARD DELIVERED BY: _____

TELEPHONE CONTACT PERSON: _____

Residue by: _____

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ADDRESS: 1000 1st St
San Francisco, CA 94101
USA

ICE / airtel

RUSH Charges
Authorized:

NAME	J. J. J. J.	
DATE	11-17-80	
PHONE	414-1111	
STATE	IL	
CITY	CHICAGO	
CONTACT	J. J. J. J.	
YES	☒	
NO	☐	

SAMPLE CONDITION WHEN RECEIVED:	REMARKS:
	TC = 1000 ml/hr

[illegible]

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

0.40 3.75% on the 8\ highest 7.44

100

WO # : 10072816

Analysis Request of Chain of Custody Record

ANALYSIS REQUEST
(Circle or Specify Method No.)



TETRA TECH

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

CLIENT NAME: COC		SITE MANAGER: Ike Tenaz		PROJECT NAME: COC / Pronghorn SWD 8" Line		PRESERVATIVE METHOD	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	DATE
903	7/22		S	X	SB-6 5' (2' BEB)	1	
904			/		SB-6 7' (2' BEB)	1	
905			/		SB-6 10' (2' BEB)	1	
906			/		SB-6 15' (2' BEB)	1	
907			/		SB-6 20' (2' BEB)	1	
908			/		SB-6 25' (2' BEB)	1	
909			/		SB-6 30' (2' DEB)	1	
910			/		SB-6 40' (2' DEB)	1	
911			/		SB-7 1' (2' DEB)	1	
912			/		SB-7 3' (2' BEB)	1	

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
<i>[Signature]</i>	7/24/10	13:10	<i>[Signature]</i>	7/27/10	18:00
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
<i>[Signature]</i>	7/24/10	13:10	<i>[Signature]</i>	7/27/10	18:00
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
<i>[Signature]</i>	7/24/10	13:10	<i>[Signature]</i>	7/27/10	18:00

RECEIVING LABORATORY:	STATE:	ZIP:	PHONE:	REMARKS:
TRACE	TX	79705		IF TPH > 1,000 mg/kg Run deeper samples
CITY: Midland				Run BREX on the (X) Highest TPH
CONTACT:				

SAMPLE CONDITION WHEN RECEIVED: 3.2% intact

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. 8270/825	
PCB's 8080/808	
Pest. 808/608	
Chloride	X
Gamma Spec.	X
Alpha Beta (Air)	X
PLM (Asbestos)	X
Major Anions/Cations, pH, TDS	X

SAMPLED BY: (Print & Initial)	Kim	DATE:	7/26/10
SAMPLE SHIPPED BY: (Circle)		AIRBILL #:	
FEDEx		OTHER:	
UPS			
TETRA TECH CONTACT PERSON:		RESULTS BY:	
Ike Tenaz			
RUSH Charges Authorized:	Yes	No	

Analysis Request of Chain of Custody Record

PAGE: 6 OF: 12

040

21



TETRA TECH

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

CLIENT NAME: C06		SITE MANAGER: Ike Tamariz		PROJECT NAME: C06 / Anybody and 8" Line		NUMBER OF CONTAINERS		PRESERVATIVE METHOD					
PROJECT NO.: 114-6400560		PROJECT NAME: C06 / Anybody and 8" Line		NUMBER OF CONTAINERS		PRESERVATIVE METHOD							
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	DATE	TIME	HCL	HNO3	ICE	NONE
288913	7/22		S		X	SB-7 5' (2' BEB)	1						
914						SB-7 7' (2' BEB)	1						
915						SB-7 10' (2' BEB)	1						
916						SB-7 15' (2' BEB)	1						
917						SB-7 20' (2' BEB)	1						
918						SB-7 25' (2' BEB)	1						
919						SB-7 30' (2' BEB)	1						
920						SB-7 40' (2' BEB)	1						
921						SB-8 1' (2' BEB)	1						
922						SB-8 3' (2' BEB)	1						

RELINQUISHED BY (Signature)	Date:	RECEIVED BY (Signature)	Date:
<i>[Signature]</i>	7/24/02	<i>[Signature]</i>	7/24/02
<i>[Signature]</i>	7/24/02	<i>[Signature]</i>	7/24/02
<i>[Signature]</i>	7/24/02	<i>[Signature]</i>	7/24/02

RECEIVING LABORATORY:	THURF
ADDRESS:	
CITY:	M. J. L.
STATE:	TX
ZIP:	
PHONE:	
DATE:	7.27.00
TIME:	15:00

SAMPLE CONDITION WHEN RECEIVED:	REMARKS:
	IF TPH > 1,000 mg/kg Run deeper

WO # 10072810

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: Fke Tavaraz		PROJECT NAME: COG / Proghon SWD 8" Line		PRESERVATIVE METHOD	
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	NUMBER OF CONTAINERS	NUMBER OF CONTAINERS
288923	7/62		S	X	SD-8 5' (2' DEB)	1	1
924					SD-8 7' (2' DEB)	1	1
926					SD-8 10' (2' DEB)	1	1
926					SD-8 15' (2' DEB)	1	1
927					SD-8 20' (2' DEB)	1	1
928					SD-8 25' (2' DEB)	1	1
929					SD-8 30' (2' DEB)	1	1
930	7/23				SD-9 1'	1	1
931					SD-9 3'	1	1
932					SD-9 5'	1	1

RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY: (Signature)	Date:	Time:
<i>[Signature]</i>	7/24/10	12:10	<i>[Signature]</i>	7/24/10	15:00
RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY: (Signature)	Date:	Time:
<i>[Signature]</i>	7/24/10	5:00 PM	<i>[Signature]</i>		
RELINQUISHED BY: (Signature)	Date:	Time:	RECEIVED BY: (Signature)	Date:	Time:
<i>[Signature]</i>			<i>[Signature]</i>		

RECEIVING LABORATORY: TETRA TECH	ADDRESS: Midland	STATE: TX	ZIP: 79705	PHONE: (432) 682-4559	REMARKS: If TPH > 1,000 mg/kg Run deeper samples
SAMPLE CONDITION WHEN RECEIVED: 3.5% intact					

ANALYSIS REQUEST (Circle or Specify Method No.)	DATE: 7/26/10	TIME: 12:10
PAH 8270		
PCB 808/608		
GC/MS Vol. 8240/8260/624		
GC/MS Semi. Vol. 8270/825		
RCI		
TCLP Semi Volatiles		
TCLP Volatiles		
TCLP Metals Ag As Ba Cd Cr Pb Hg Se		
TCLP Metals Ag As Ba Cd Cr Pb Hg Se		
Gamma Spec.		
Alpha Beta (Am)		
PLM (Asbestos)		
Major Anions/Cations, pH, TDS		

DATE: 7/26/10	TIME: 12:10
SAMPLED BY: (Print & Initial) <i>[Signature]</i>	
SAMPLE SHIPPED BY: (Circle) FEDEX BUS	
OTHER: HAND DELIVERED UPS	
TETRA TECH CONTACT PERSON: Fke Tavaraz	
RESULTS BY: Fke Tavaraz	
RUSH CHARGES AUTHORIZED: Yes	

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 RTEX on the (8) Highest TPH

Analysis Request of Chain of Custody Record

PAGE: 8 OF: 12

ANALYSIS REQUEST

(Circle or Specify Method No.)



TETRA TECH

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

SITE MANAGER:

Ice Tavaraz

PROJECT NAME:

COG / Pronghorn SWD 8" Line

Lea Co., TN

SAMPLE IDENTIFICATION

CLIENT NAME: 006		PROJECT NAME: 006 / Pronghon SWD 8" Line		SITE MANAGER: Ike Talaraz		NUMBER OF CONTAINERS		PRESERVATIVE METHOD				
PROJECT NO.:	LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	FILTERED (Y/N)	HCL	HN03	ICE	NONE
1146400560	938933	7/23		S		X	SB-9 7'	1			X	
	934	/		/		/	SB-9 10'	1			X	
	935	/		/		/	SB-10 1'	1			X	
	936	/		/		/	SD-10 3'	1			X	
	937	/		/		/	SD-10 5'	1			X	
	938	/		/		/	SD-10 7'	1			X	
	939	/		/		/	SD-10 10'	1			X	
	940	/		/		/	SD-11 1'	1			X	
	941	/		/		/	SD-11 3'	1			X	
	942	/		/		/	SD-11 5'	1			X	

BTEX 0021B	TPH	8015 MOD	TK1005	(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. 8240/8260/824				
GC/MS Semi. Vol. 8270/825				
PCB's 8080/608				
Pest. 808/608				
Chloride				
Gamma Spec.				
Alpha Beta (A/B)				
PLM (Asbestos)				
Major Anions/Cations, pH, TDS				

RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: 7/26/80	Time: 12:00	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 7/26/80	Time: 12:00
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: 7/26/80	Time: 12:00	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 7/26/80	Time: 12:00
RELINQUISHED BY: (Signature) <i>[Signature]</i>	Date: 7/26/80	Time: 12:00	RECEIVED BY: (Signature) <i>[Signature]</i>	Date: 7/26/80	Time: 12:00
RECEIVING LABORATORY: trace	ADDRESS: <i>[illegible]</i>	CITY: medford	STATE: NJ	ZIP: 08050	DATE: 7-24-80
CONTACT: <i>[illegible]</i>	PHONE: <i>[illegible]</i>	TIME: 15:00			

REMARKS:	SAMPLE CONDITION WHEN RECEIVED:
If TPH > 1,000 mg/kg Run deeper samples	3.2° 1.06 ct

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

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ANALYSIS REQUEST
(Circle or Specify Method No.)

PAGE: 0 OF: 2



TETRA TECH

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

CLIENT NAME: C06		SITE MANAGER: Ike Tavares		PROJECT NAME: C06 / Proyhan SWD 8" Line		PROJECT NO.: 114-6400560		LAB I.D. NUMBER		DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION Lee Co., NM		NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD				
DATE		TIME		TIME		TIME		TIME		TIME		TIME		TIME		HCL			HNO3	ICE	NONE		
238953	7/23			S	X	SB-12	10'	1															
954						SB-12	15'	1															
955						SD-12	20'	1															
956						SB-12	25'	1															
957						SB-13	1'	1															
958						SD-13	3'	1															
969						SD-13	5'	1															
960						SD-13	7'	1															
961						SD-13	10'	1															
962						SD-13	15'	1															
RELINQUISHED BY: (Signature)										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	
RELINQUISHED BY: (Signature)										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	
RELINQUISHED BY: (Signature)										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	
RECEIVING LABORATORY: TRACE										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	
ADDRESS: 114-6400560										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	
CITY: 114-6400560										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	
CONTACT: 114-6400560										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	
REMARKS: IF TPAH > 1,000 mg/kg Run deeper sample										Date: 7/26/10		Time: 10:30		RECEIVED BY: (Signature)		Date: 7/26/10		Time: 10:30		Date: 7/26/10		Time: 10:30	

Is TPAH > 1,000 mg/kg Run deeper samples

Run RTX on the (c) Highest TDU

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

Lab #: 100728/0

Analysis Request of Chain of Custody Record

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TETRA TECH

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

CLIENT NAME: COG		SITE MANAGER: Fke Tavaroz		PRESERVATIVE METHOD	
PROJECT NO: 114-6400560		PROJECT NAME: COG / Proghon SWD 8" Line		NUMBER OF CONTAINERS	
LAB I.D. NUMBER		DATE		TIME	
238173		7/23		2010	
974		975		976	
977		978		979	
980		981		982	
983		984		985	
986		987		988	
989		990		991	
992		993		994	
995		996		997	
998		999		1000	
1001		1002		1003	
1004		1005		1006	
1007		1008		1009	
1010		1011		1012	
1013		1014		1015	
1016		1017		1018	
1019		1020		1021	
1022		1023		1024	
1025		1026		1027	
1028		1029		1030	
1031		1032		1033	
1034		1035		1036	
1037		1038		1039	
1040		1041		1042	
1043		1044		1045	
1046		1047		1048	
1049		1050		1051	
1052		1053		1054	
1055		1056		1057	
1058		1059		1060	
1061		1062		1063	
1064		1065		1066	
1067		1068		1069	
1070		1071		1072	
1073		1074		1075	
1076		1077		1078	
1079		1080		1081	
1082		1083		1084	
1085		1086		1087	
1088		1089		1090	
1091		1092		1093	
1094		1095		1096	
1097		1098		1099	
1100		1101		1102	
1103		1104		1105	
1106		1107		1108	
1109		1110		1111	
1112		1113		1114	
1115		1116		1117	
1118		1119		1120	
1121		1122		1123	
1124		1125		1126	
1127		1128		1129	
1130		1131		1132	
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1157		1158		1159	
1160		1161		1162	
1163		1164		1165	
1166		1167		1168	
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1172		1173		1174	
1175		1176		1177	
1178		1179		1180	
1181		1182		1183	
1184		1185		1186	
1187		1188		1189	
1190		1191		1192	
1193		1194		1195	
1196		1197		1198	
1199		1200		1201	
1202		1203		1204	
1205		1206		1207	
1208		1209		1210	
1211		1212		1213	
1214		1215		1216	
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1298		1299		1300	
1301		1302		1303	
1304		1305		1306	
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1502		1503		1504	
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1595		1596		1597	
1598		1599		1600	
1601		1602		1603	
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1652		1653		1654	
1655		1656		1657	
1658		1659		1660	
1661		1662		1663	
1664		1665		1666	
1667		1668		1669	
1670		1671		1672	
1673		1674		1675	
1676		1677		1678	
1679		1680		1681	
1682		1683		1684	
1685		1686		1687	
1688		1689		1690	
1691		1692		1693	
1694		1695		1696	
1697		1698		1699	
1700		1701		1702	
1703		1704		1705	
1706		1707		1708	
1709		1710		1711	
1712		1713		1714	
1715		1716		1717	
1718		1719		1720	
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1742		1743		1744	
1745					

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Carrier #

Summary Report

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

Report Date: April 29, 2011

Work Order: 11042202

Project Location: Lea Co., NM
Project Name: COG/Pronghorn SWD System Line Leak (East Spill)
Project Number: 114-6400560

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
264373	CS-1	soil	2011-04-18	00:00	2011-04-21
264374	CS-2	soil	2011-04-18	00:00	2011-04-21
264375	CS-3	soil	2011-04-18	00:00	2011-04-21
264376	CS-4	soil	2011-04-18	00:00	2011-04-21
264377	CS-5	soil	2011-04-18	00:00	2011-04-21
264378	CS-6	soil	2011-04-18	00:00	2011-04-21
264379	CS-7	soil	2011-04-18	00:00	2011-04-21

Sample: 264373 - CS-1

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

Sample: 264374 - CS-2

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

Sample: 264375 - CS-3

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

Sample: 264376 - CS-4

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

Sample: 264377 - CS-5

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

Sample: 264378 - CS-6

Param	Flag	Result	Units	RL
Chloride		676	mg/Kg	4.00

Sample: 264379 - CS-7

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



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: April 29, 2011

Work Order: 11042202



Project Location: Lea Co., NM
Project Name: COG/Pronghorn SWD System Line Leak (East Spill)
Project Number: 114-6400560

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
264373	CS-1	soil	2011-04-18	00:00	2011-04-21
264374	CS-2	soil	2011-04-18	00:00	2011-04-21
264375	CS-3	soil	2011-04-18	00:00	2011-04-21
264376	CS-4	soil	2011-04-18	00:00	2011-04-21
264377	CS-5	soil	2011-04-18	00:00	2011-04-21
264378	CS-6	soil	2011-04-18	00:00	2011-04-21
264379	CS-7	soil	2011-04-18	00:00	2011-04-21

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Case Narrative

Samples for project COG/Pronghorn SWD System Line Leak (East Spill) were received by TraceAnalysis, Inc. on 2011-04-21 and assigned to work order 11042202. Samples for work order 11042202 were received intact at a temperature of 18.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	68435	2011-04-25 at 11:20	80670	2011-04-26 at 15:48
Chloride (Titration)	SM 4500-Cl B	68435	2011-04-25 at 11:20	80725	2011-04-27 at 15:42

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11042202 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Analytical Report

Sample: 264373 - CS-1

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2011-04-26	Analyzed By:	AR
QC Batch:	80670	Sample Preparation:	2011-04-27	Prepared By:	AR
Prep Batch:	68435				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<200	mg/Kg	50	4.00

Sample: 264374 - CS-2

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2011-04-26	Analyzed By:	AR
QC Batch:	80670	Sample Preparation:	2011-04-27	Prepared By:	AR
Prep Batch:	68435				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<200	mg/Kg	50	4.00

Sample: 264375 - CS-3

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2011-04-26	Analyzed By:	AR
QC Batch:	80670	Sample Preparation:	2011-04-27	Prepared By:	AR
Prep Batch:	68435				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<200	mg/Kg	50	4.00

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Sample: 264376 - CS-4

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2011-04-26	Analyzed By:	AR
QC Batch:	80670	Sample Preparation:	2011-04-27	Prepared By:	AR
Prep Batch:	68435				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<200	mg/Kg	50	4.00

Sample: 264377 - CS-5

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2011-04-26	Analyzed By:	AR
QC Batch:	80670	Sample Preparation:	2011-04-27	Prepared By:	AR
Prep Batch:	68435				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<200	mg/Kg	50	4.00

Sample: 264378 - CS-6

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2011-04-27	Analyzed By:	AR
QC Batch:	80725	Sample Preparation:	2011-04-27	Prepared By:	AR
Prep Batch:	68435				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			676	mg/Kg	50	4.00

Sample: 264379 - CS-7

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2011-04-27	Analyzed By:	AR
QC Batch:	80725	Sample Preparation:	2011-04-27	Prepared By:	AR
Prep Batch:	68435				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<200	mg/Kg	50	4.00

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Method Blanks

Method Blank (1) QC Batch: 80670

QC Batch: 80670
Prep Batch: 68435

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Method Blank (1) QC Batch: 80725

QC Batch: 80725
Prep Batch: 68435

Date Analyzed: 2011-04-27
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 80670
Prep Batch: 68435

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			96.9	mg/Kg	1	100	<3.85	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			104	mg/Kg	1	100	<3.85	104	85 - 115	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 80725
Prep Batch: 68435

Date Analyzed: 2011-04-27
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			98.1	mg/Kg	1	100	<3.85	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			102	mg/Kg	1	100	<3.85	102	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 264377

QC Batch: 80670
Prep Batch: 68435

Date Analyzed: 2011-04-26
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			10000	mg/Kg	100	10000	<385	100	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			10300	mg/Kg	100	10000	<385	103	80 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 264387

QC Batch: 80725
Prep Batch: 68435

Date Analyzed: 2011-04-27
QC Preparation: 2011-04-25

Analyzed By: AR
Prepared By: AR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			11900	mg/Kg	100	10000	2450	94	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			12300	mg/Kg	100	10000	2450	98	80 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Calibration Standards

Standard (ICV-1)

QC Batch: 80670

Date Analyzed: 2011-04-26

Analyzed By: AR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	101	101	85 - 115	2011-04-26

Standard (CCV-1)

QC Batch: 80670

Date Analyzed: 2011-04-26

Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	98.8	99	85 - 115	2011-04-26

Standard (ICV-1)

QC Batch: 80725

Date Analyzed: 2011-04-27

Analyzed By: AR

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2011-04-27

Standard (CCV-1)

QC Batch: 80725

Date Analyzed: 2011-04-27

Analyzed By: AR

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	99.6	100	85 - 115	2011-04-27

Appendix

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704392-10-TX	Midland

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

X000 #: 11042202

Analysis Request of Chain of Custody Record

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ANALYSIS REQUEST
(Circle or Specify Method No.)**TETRA TECH**1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946CLIENT NAME:
056SITE MANAGER:
Ike TenortPRESERVATIVE
METHODPROJECT NO.:
114-6400320PROJECT NAME:
0561 / Penetration SWD System Line Leak (Ex-Spills)SAMPLE IDENTIFICATION
Lia Co. NW

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