pPAC0721455916
1504

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

JUL 2007
Received
Hobbs OCD

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

X Initial Report Final Report

Name of Company Chevron Midcontinent LP	Contact Larry Ridenour
Address HCR 60 Box 423 Lovington, N.M. 88260	Telephone No. 505-396-4414 X 102
Facility Name Lovington San Andres Unit #25	Facility Type Injection Trunkline

Surface Owner City of Lovington	Mineral Owner State of NM	Lease No. B1505

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the		Feet from the		County
O	36	16S	36E	660	South Line	1980	East Line	Lea

Latitude_N 32 deg 52 min 23.45 sec __ Longitude_W 103 deg 18 ~~min 20.78~~ sec

03782

NATURE OF RELEASE

API #3002~~5050~~51

Type of Release Produced water	Volume of Release 20 BW	Volume Recovered .5 bbl fluids.
Source of Release injection trunk line	Date and Hour of Occurrence 07/24/07 ??	Date and Hour of Discovery 07/26/07 9:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Pat Caperton	
By Whom? Larry Ridenour	Date and Hour 7/26/2007 4:00 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.*
Leak occurred on trunk line in field. LSAU #25 given as location because it is the nearest well. Leak was a very small leak and had been leaking for a couple of days probably before it was discovered. Upon discovery line was shut in and the small amount of water that was standing was picked up. 2" high pressure fiberglass line had a small crack in it due to what appears to be improper installation of the pipe. Emergency one call was done and excavation of contaminated soil began 7/26/07 afternoon. Wet soil will be removed and final remediation will be turned over to an environmental company to submit final plan for NMOCD approval.

Chlorides 35,300

Describe Area Affected and Cleanup Action Taken.*
Fluid soaked in ground. ½ BBL water was picked up with vacuum truck. Affected area is approximately 50' diameter circle.

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: Larry D Ridenour

Printed Name: Larry Ridenour

Title: Operations Representative

E-mail AddressLRidenour@chevron.com

Date: 7/27/2007 Phone: 396-4414 X 102

OIL CONSERVATION DIVISION

Approved by District ~~Supervisor~~: Ernie Ener

Approval Date: 7.31.07 Expiration Date: 8.31.07

Conditions of Approval:
Submit Final C-141 w/ Documentation by

Attached ☐

RP#1504

SITE INFORMATION

Report Type: CLOSURE REQUEST — RP #1504

General Site Information:	
Site:	**Lovington San Andres Unit #25**
Company:	**Chevron USA**
Well Location:	**Section 36,T16S,R36E**
Unit Letter:	**Unit O**
API	**3002503782**
Lease Number:	**B1505**
County:	**Lea**
Spill GPS:	32.87259 103.30660
Surface Owner:	City of Lovington
Mineral Owner:	State of New Mexico
Directions:	North of Hobbs,NM at the intersection of 18 and CR 78 (Stiles RD). Go North on 18 for 1.6 miles,
	Turn left on lease road go aprox 0.9 miles turn right (south) location on right (east) side of Road.

Release Data:	
Date Released:	7/24/2007
Type Release:	produced water
Source of Contamination:	injection trunk line leak
Fluid Released:	20 BW
Fluids Recovered:	0.5

Official Communication:			
Name:	Steve Gwin		Ike Tavarez
Company:	Chevron USA		Tetra Tech
Address:	15 Smith Road		1910 N. Big Spring
P.O. Box			
City:	Midland Texas, 79705		Midland, Texas
Phone number:	(432) 687-7575		(432) 682- 4559
Fax:	(866) 569-5950		
Email:	gwst@chevron.com		ike.tavarez@tetratech.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*	*None*
Water Source >1,000 ft., Private >200 ft.	***0***	

Surface Body of Water:	*Ranking Score*	*Site Data*
<200 ft.	*20*	*None*
200 ft - 1,000 ft.	10	*None*
>1,000 ft.	**0**	

Total Ranking Score:	**10**

Acceptable Soil RRAL (mg/kg)		
Benzene	*Total BTEX*	*TPH*
10	**50**	**1,000**

TETRA TECH

RECEIVED
JAN 18 2011
HOBBSOCD

August 2, 2010

Mr. Larry Johnson
Environmental Engineer Specialist
Oil Conservation Division- District I
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Closure Request for the Spill at the Lovington San Andres Unit #25 Well, Unit Letter O, Section 36 Township 16 South, Range 36 East, Lea County, New Mexico, Operated by Chevron USA, API 3002503782 RP #1504

Dear Mr. Johnson:

Tetra Tech was contacted by Chevron USA (Chevron) to collect samples (assess) the excavated area from an injection trunk line leak at the Lovington San Andres Unit #25 Well, located in Unit Letter O, Section 36, Township 16 South, Range 36 East, Lea County, New Mexico. The site coordinates are N 32.87259°, W 103.30660°.The Site location is shown on Figures 1 and 2.

Background

As reported in the C-141 (Initial), the spill was discovered on July 24, 2007. The spill occurred at a 2" high pressure fiberglass line, which had a small cracked from an improper installation of the pipe. A total of 20 barrels of produced water were released and 0.5 barrels were recovered. On July 26, 2007, Chevron excavated the impacted soils and transported the soils to proper disposal. The spill area was excavated to a depth of approximately 3.0' to 4.0' below surface. The impacted area measured approximately 50' diameter in the pasture east of the lease road. The initial C-141 is shown in Appendix A.

Tetra Tech

Tel Fax

Groundwater and Regulatory

The Site is located in Section 36, Township 16 South, Range 36 East. There are numerous water wells in the vicinity of this site. Both the USGS database and the State of New Mexico Well Reports show water wells throughout Township 16 South, Range 37 East. The average depth to water is shown in Appendix A. Based upon the well information acquired, the depth to groundwater at the site was determined to be greater than 50' below surface.

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

Site Inspection and Sampling

On July 15, 2010, Tetra Tech personnel inspected the excavated spill area. A total of five (5) auger holes were installed in the bottom of the excavation and sidewall samples were collected from the excavation. During the installation of the auger holes, deeper samples were not collected due to the dense formation at the bottom. Soil samples were submitted to Trace Analysis 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 sampling results are summarized in Table 1.

Referring to Table 1, all of the samples were below the RRAL for TPH and BTEX. The chloride concentrations were all below reporting limit (<200 mg/kg) on the bottom of the excavation. All sidewall samples were below the reporting limit, except for SW-7, which showed a chloride concentration of 484 mg/kg.

Closure Request /Soil Capping

Based on the results, Chevron requests closure of site. As an added precautionary measure, prior to backfilling the excavation, Chevron proposes to cap the excavated area with a 20 mil liner. The cap will be installed

TETRA TECH

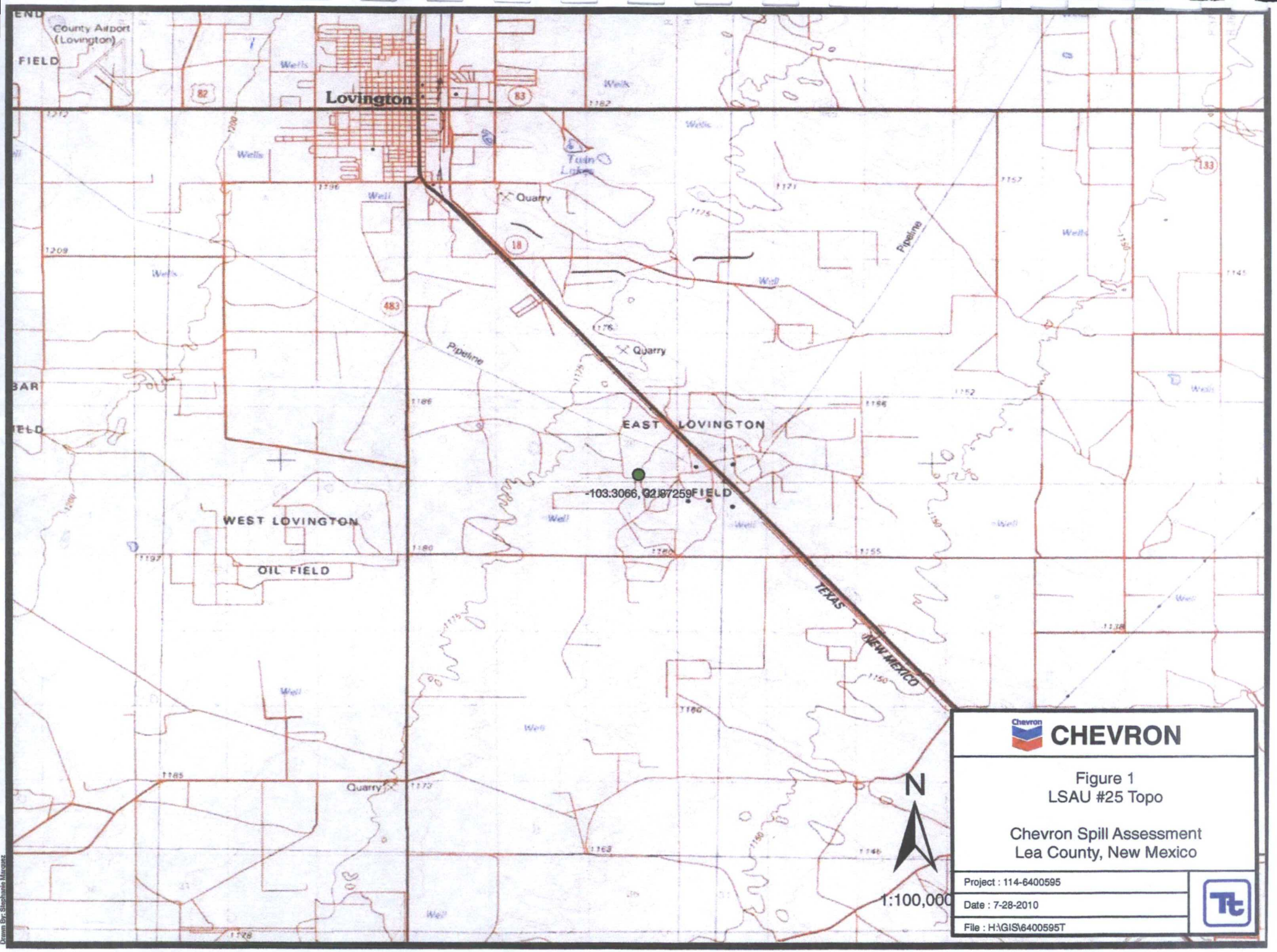
approximately 4.0' below surface and backfilled with clean soil. If approved, Chevron will submit a final C-141 after the cap and backfilling is completed at the site.

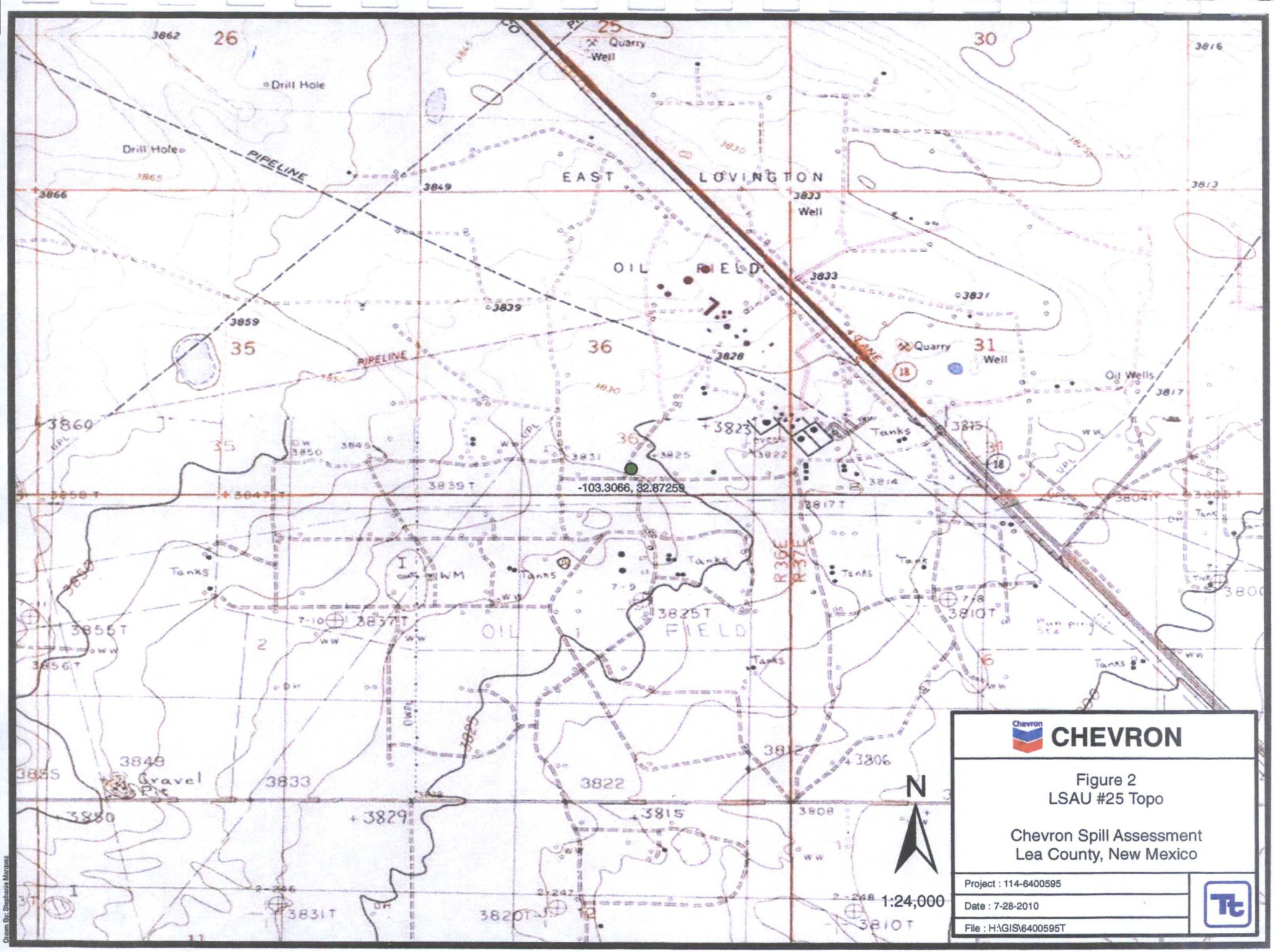
If you require any additional information or have any questions or comments, please call.

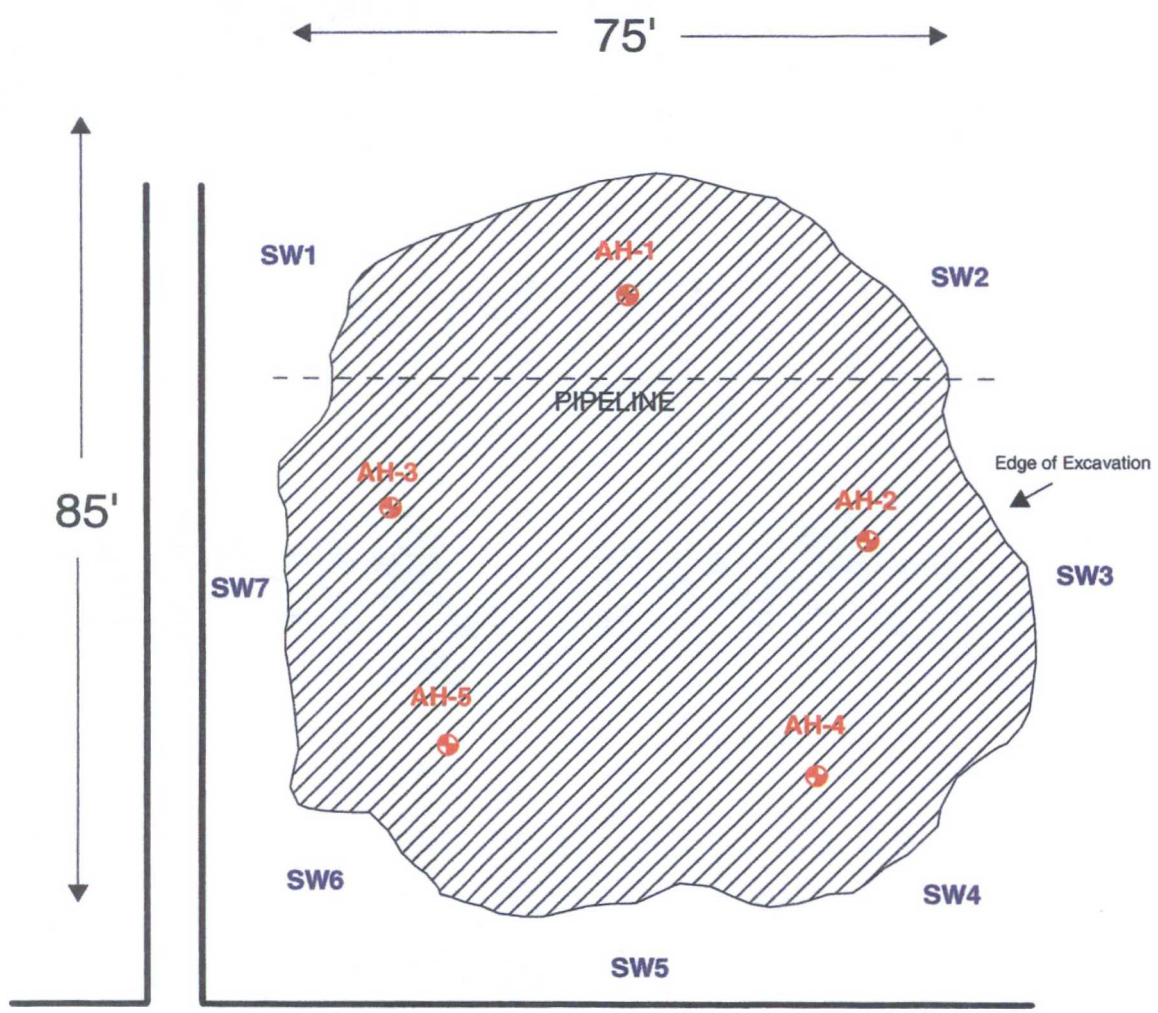
Tetra Tech

Ike Tavarez, P.G.
Project Manager

cc: Chevron USA – Steve Gwinn


Lovington
County Airport (Lovington)
FIELD
EAST LOVINGTON
OIL FIELD
WEST LOVINGTON
-103.3066, 32.97259
Pipeline
Quarry
Wells
Well
Twin Lakes
TEXAS
NEW MEXICO
N
1:100,000
CHEVRON
Figure 1
LSAU #25 Topo
Chevron Spill Assessment
Lea County, New Mexico
Project : 114-6400595
Date : 7-28-2010
File : H:\GIS\6400595T


EAST LOVINGTON
OIL FIELD
OIL FIELD
PIPELINE
PIPELINE
Drill Hole
Drill Hole
Quarry
Well
Quarry
Well
Oil Wells
Tanks
Gravel Pit
-103.3066, 32.87259
N
1:24,000
CHEVRON
Figure 2
LSAU #25 Topo
Chevron Spill Assessment
Lea County, New Mexico
Project : 114-6400595
Date : 7-28-2010
File : H:\GIS\6400595T



Explanation

- Spill Area
- Auger Hole Sample
- SW Side Wall Sample

N

NOT TO SCALE

CHEVRON

Figure 3
LSAU #25

Chevron Spill Assessment
Lea County, New Mexico

Project : 114-6400595	
Date : 7-28-2010	
File : H:\GIS\6400595DWG	

Drawn By: Stephanie Marquez

Table 1
Chevron USA
LSAU #25
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	Sample Location	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					
AH-1	7/15/2010	0-1'	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
AH-2	7/15/2010	0-1'	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
AH-3	7/15/2010	0-1'	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
	7/15/2010	1-1.5	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
AH-4	7/15/2010	0-1'	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
AH-5	7/15/2010	0-0.5	bottom	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW1	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	213
SW2	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<400
SW3	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW4	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<400
SW5	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW6	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	<200
SW7	7/15/2010	-	sidewall	X		<2.0	<50.0	<50.0	<0.020	<0.020	<0.020	<0.020	484

SW - sidewall samples

Water Well Data
Average Depth to Groundwater (ft)
Chevron USA
Lovington San Andres Unit #25

16 South 36 East

6	5	4	3	2	1
7	8	9 Lovington	10	11	12
18 54	17	16	15	14	13
19	20 70	21 70	22 63 63	23 70 61	24 55
30 82	29	28	27	26 63	25 68 52
31 74	32 65	33	34	35 41	3 Site 65 70

16 South 37 East

6	5	4	3	2	1
7 66	8	9	10	11 80	12
18	17	16	15	14	13
19 55 82	20 44	21 50	22	23	24
30 52 60	29 44	28 34	27 73	26	25 70
31 72 55	32 38	33 60	34 60	35	36

16 South 38 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 36 East

6 50	5	4 65	3 60	2 60 69	1 83 74
7	8	9	10 43	11	12 44 46
18	17	16	15	14 48	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

17 South 37 East

6 75	5 57 50	4 40	3 60 55	2 67	1 51
7 65	8 50 68	9 42	10 70 64	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 38 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)

34 NMOCD - Groundwater Data

Summary Report

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

Report Date: July 20, 2010

Work Order: 10071915

Project Location: Lea County, NM
Project Name: LSAU #25
Project Number: 114-6400595

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
237996	SW1	soil	2010-07-15	00:00	2010-07-19
237997	SW2	soil	2010-07-15	00:00	2010-07-19
237998	SW3	soil	2010-07-15	00:00	2010-07-19
237999	SW4	soil	2010-07-15	00:00	2010-07-19
238000	SW5	soil	2010-07-15	00:00	2010-07-19
238001	SW6	soil	2010-07-15	00:00	2010-07-19
238002	SW7	soil	2010-07-15	00:00	2010-07-19
238003	AH-1 0-1'	soil	2010-07-15	00:00	2010-07-19
238004	AH-2 0-1'	soil	2010-07-15	00:00	2010-07-19
238005	AH-3 0-1'	soil	2010-07-15	00:00	2010-07-19
238006	AH-3 1-1.5'	soil	2010-07-15	00:00	2010-07-19
238007	AH-4 0-1'	soil	2010-07-15	00:00	2010-07-19
238008	AH-5 0-6 in.	soil	2010-07-15	00:00	2010-07-19

Sample - Field Code	BTEX Benzene (mg/Kg)	BTEX Toluene (mg/Kg)	BTEX Ethylbenzene (mg/Kg)	BTEX Xylene (mg/Kg)	TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
237996 - SW1	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
237997 - SW2	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
237998 - SW3	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
237999 - SW4	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238000 - SW5	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238001 - SW6	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238002 - SW7	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238003 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238004 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238005 - AH-3 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238006 - AH-3 1-1.5'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
238007 - AH-4 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00

continued ...

... continued

Sample - Field Code	BTEX Benzene (mg/Kg)	BTEX Toluene (mg/Kg)	BTEX Ethylbenzene (mg/Kg)	BTEX Xylene (mg/Kg)	TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
238008 - AH-5 0-6 in.	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00

Sample: 237996 - SW1

Param	Flag	Result	Units	RL
Chloride		**213**	mg/Kg	4.00

Sample: 237997 - SW2

Param	Flag	Result	Units	RL
Chloride		<400	mg/Kg	4.00

Sample: 237998 - SW3

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

Sample: 237999 - SW4

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

Sample: 238000 - SW5

Param	Flag	Result	Units	RL
Chloride		<400	mg/Kg	4.00

Sample: 238001 - SW6

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

Sample: 238002 - SW7

continued ...

sample 238002 continued ...

Param	Flag	Result	Units	RL

Param	Flag	Result	Units	RL
Chloride		**484**	mg/Kg	4.00

Sample: 238003 - AH-1 0-1'

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

Sample: 238004 - AH-2 0-1'

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

Sample: 238005 - AH-3 0-1'

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

Sample: 238006 - AH-3 1-1.5'

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

Sample: 238007 - AH-4 0-1'

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

Sample: 238008 - AH-5 0-6 in.

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

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•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: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

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

Report Date: July 20, 2010

Work Order: 10071915

Project Location: Lea County, NM
Project Name: LSAU #25
Project Number: 114-6400595

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
237996	SW1	soil	2010-07-15	00:00	2010-07-19
237997	SW2	soil	2010-07-15	00:00	2010-07-19
237998	SW3	soil	2010-07-15	00:00	2010-07-19
237999	SW4	soil	2010-07-15	00:00	2010-07-19
238000	SW5	soil	2010-07-15	00:00	2010-07-19
238001	SW6	soil	2010-07-15	00:00	2010-07-19
238002	SW7	soil	2010-07-15	00:00	2010-07-19
238003	AH-1 0-1'	soil	2010-07-15	00:00	2010-07-19
238004	AH-2 0-1'	soil	2010-07-15	00:00	2010-07-19
238005	AH-3 0-1'	soil	2010-07-15	00:00	2010-07-19

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
238006	AH-3 1-1.5'	soil	2010-07-15	00:00	2010-07-19
238007	AH-4 0-1'	soil	2010-07-15	00:00	2010-07-19
238008	AH-5 0-6 in.	soil	2010-07-15	00:00	2010-07-19

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.

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 LSAU #25 were received by TraceAnalysis, Inc. on 2010-07-19 and assigned to work order 10071915. Samples for work order 10071915 were received intact at a temperature of 3.3 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	61608	2010-07-19 at 16:00	71883	2010-07-19 at 15:44
Chloride (Titration)	SM 4500-Cl B	61617	2010-07-20 at 08:49	71893	2010-07-20 at 11:54
Chloride (Titration)	SM 4500-Cl B	61618	2010-07-20 at 08:51	71894	2010-07-20 at 11:55
TPH DRO - NEW	S 8015 D	61591	2010-07-19 at 14:30	71872	2010-07-19 at 14:30
TPH GRO	S 8015 D	61608	2010-07-19 at 16:00	71884	2010-07-19 at 16:29

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 10071915 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.

Analytical Report

Sample: 237996 - SW1

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

Parameter	Flag	Result	RL	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)		1.43	mg/Kg	1	2.00	72	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.44	mg/Kg	1	2.00	72	38.4 - 157

Sample: 237996 - SW1

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	Sample Preparation:	2010-07-20	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**213**		mg/Kg	50	4.00

Sample: 237996 - SW1

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.5	mg/Kg	1	100	94	70 - 130

Sample: 237996 - SW1

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.64	mg/Kg	1	2.00	82	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.57	mg/Kg	1	2.00	78	42 - 159

Sample: 237997 - SW2

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.62	mg/Kg	1	2.00	81	38.4 - 157

Sample: 237997 - SW2

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	Sample Preparation:	2010-07-20	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		<400		mg/Kg	100	4.00

Sample: 237997 - SW2

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		87.7	mg/Kg	1	100	88	70 - 130

Sample: 237997 - SW2

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/Kg	1	2.00	93	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.76	mg/Kg	1	2.00	88	42 - 159

Sample: 237998 - SW3

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		2.13	mg/Kg	1	2.00	106	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.14	mg/Kg	1	2.00	107	38.4 - 157

Sample: 237998 - SW3

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 237998 - SW3

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	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		88.9	mg/Kg	1	100	89	70 - 130

Sample: 237998 - SW3

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		2.41	mg/Kg	1	2.00	120	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.31	mg/Kg	1	2.00	116	42 - 159

Sample: 237999 - SW4

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.44	mg/Kg	1	2.00	72	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.45	mg/Kg	1	2.00	72	38.4 - 157

Sample: 237999 - SW4

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 237999 - SW4

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		89.3	mg/Kg	1	100	89	70 - 130

Sample: 237999 - SW4

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

Parameter	Flag	Result	RL	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)		1.58	mg/Kg	1	2.00	79	42 - 159

Sample: 238000 - SW5

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

Parameter	Flag	Result	RL	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)		1.24	mg/Kg	1	2.00	62	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	2.00	62	38.4 - 157

Sample: 238000 - SW5

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	Sample Preparation:	2010-07-20	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<400	mg/Kg	100	4.00

Sample: 238000 - SW5

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	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		89.8	mg/Kg	1	100	90	70 - 130

Sample: 238000 - SW5

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.42	mg/Kg	1	2.00	71	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.36	mg/Kg	1	2.00	68	42 - 159

Sample: 238001 - SW6

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.23	mg/Kg	1	2.00	62	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.25	mg/Kg	1	2.00	62	38.4 - 157

Sample: 238001 - SW6

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 238001 - SW6

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	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		89.8	mg/Kg	1	100	90	70 - 130

Sample: 238001 - SW6

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.40	mg/Kg	1	2.00	70	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.34	mg/Kg	1	2.00	67	42 - 159

Sample: 238002 - SW7

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.40	mg/Kg	1	2.00	70	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.44	mg/Kg	1	2.00	72	38.4 - 157

Sample: 238002 - SW7

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	Sample Preparation:	2010-07-20	Prepared By:	AR

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**484**		mg/Kg	50	4.00

Sample: 238002 - SW7

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		91.8	mg/Kg	1	100	92	70 - 130

Sample: 238002 - SW7

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.62	mg/Kg	1	2.00	81	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.56	mg/Kg	1	2.00	78	42 - 159

Sample: 238003 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

Parameter	Flag	Result	RL	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)		2.30	mg/Kg	1	2.00	115	52.8 - 137
4-Bromofluorobenzene (4-BFB)		2.28	mg/Kg	1	2.00	114	38.4 - 157

Sample: 238003 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71894	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61618	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 238003 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		91.4	mg/Kg	1	100	91	70 - 130

Sample: 238003 - AH-1 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		2.60	mg/Kg	1	2.00	130	48.5 - 152
4-Bromofluorobenzene (4-BFB)		2.44	mg/Kg	1	2.00	122	42 - 159

Sample: 238004 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.47	mg/Kg	1	2.00	74	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.53	mg/Kg	1	2.00	76	38.4 - 157

Sample: 238004 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71894	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61618	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 238004 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.5	mg/Kg	1	100	94	70 - 130

Sample: 238004 - AH-2 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

Parameter	Flag	Result	RL	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)		1.64	mg/Kg	1	2.00	82	42 - 159

Sample: 238005 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

Parameter	Flag	Result	RL	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)		1.69	mg/Kg	1	2.00	84	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.70	mg/Kg	1	2.00	85	38.4 - 157

Sample: 238005 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71894	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61618	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 238005 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	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		96.3	mg/Kg	1	100	96	70 - 130

Sample: 238005 - AH-3 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.90	mg/Kg	1	2.00	95	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.82	mg/Kg	1	2.00	91	42 - 159

Sample: 238006 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.61	mg/Kg	1	2.00	80	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.64	mg/Kg	1	2.00	82	38.4 - 157

Sample: 238006 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71894	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61618	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 238006 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		93.5	mg/Kg	1	100	94	70 - 130

Sample: 238006 - AH-3 1-1.5'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.86	mg/Kg	1	2.00	93	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.78	mg/Kg	1	2.00	89	42 - 159

Sample: 238007 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

Parameter	Flag	Result	RL	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)		1.13	mg/Kg	1	2.00	56	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	2.00	58	38.4 - 157

Sample: 238007 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71894	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61618	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 238007 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	Prepared By:	kg

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		94.7	mg/Kg	1	100	95	70 - 130

Sample: 238007 - AH-4 0-1'

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	Prepared By:	AG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.28	mg/Kg	1	2.00	64	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.26	mg/Kg	1	2.00	63	42 - 159

Sample: 238008 - AH-5 0-6 in.

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.58	mg/Kg	1	2.00	79	52.8 - 137
4-Bromofluorobenzene (4-BFB)		1.61	mg/Kg	1	2.00	80	38.4 - 157

Sample: 238008 - AH-5 0-6 in.

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71894	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61618	Sample Preparation:	2010-07-20	Prepared By:	AR

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

Sample: 238008 - AH-5 0-6 in.

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	Sample Preparation:	2010-07-19	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: 238008 - AH-5 0-6 in.

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	Sample Preparation:	2010-07-19	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)		1.80	mg/Kg	1	2.00	90	48.5 - 152
4-Bromofluorobenzene (4-BFB)		1.74	mg/Kg	1	2.00	87	42 - 159

Method Blank (1) QC Batch: 71872

QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	QC Preparation:	2010-07-19	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		91.3	mg/Kg	1	100	91	70 - 130

Method Blank (1) QC Batch: 71883

QC Batch:	71883	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	QC Preparation:	2010-07-19	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)		2.26	mg/Kg	1	2.00	113	66.6 - 122
4-Bromofluorobenzene (4-BFB)		2.26	mg/Kg	1	2.00	113	55.4 - 132

Method Blank (1) QC Batch: 71884

QC Batch:	71884	Date Analyzed:	2010-07-19	Analyzed By:	AG
Prep Batch:	61608	QC Preparation:	2010-07-19	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)		2.61	mg/Kg	1	2.00	130	67.6 - 150
4-Bromofluorobenzene (4-BFB)		2.46	mg/Kg	1	2.00	123	52.4 - 130

Method Blank (1) QC Batch: 71893

QC Batch:	71893	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61617	QC Preparation:	2010-07-20	Prepared By:	AR

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

Method Blank (1) QC Batch: 71894

QC Batch:	71894	Date Analyzed:	2010-07-20	Analyzed By:	AR
Prep Batch:	61618	QC Preparation:	2010-07-20	Prepared By:	AR

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

Laboratory Control Spike (LCS-1)

QC Batch:	71872	Date Analyzed:	2010-07-19	Analyzed By:	kg
Prep Batch:	61591	QC Preparation:	2010-07-19	Prepared By:	kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	215	mg/Kg	1	250	<14.5	86	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	226	mg/Kg	1	250	<14.5	90	57.4 - 133.4	5	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	92.0	94.5	mg/Kg	1	100	92	94	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 71883 | Date Analyzed: 2010-07-19 | Analyzed By: AG
Prep Batch: 61608 | QC Preparation: 2010-07-19 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.06	mg/Kg	1	2.00	<0.0150	103	81.9 - 108
Toluene	2.09	mg/Kg	1	2.00	<0.00950	104	81.9 - 107
Ethylbenzene	2.06	mg/Kg	1	2.00	<0.0106	103	78.4 - 107
Xylene	6.23	mg/Kg	1	6.00	<0.00930	104	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	2.00	mg/Kg	1	2.00	<0.0150	100	81.9 - 108	3	20
Toluene	2.02	mg/Kg	1	2.00	<0.00950	101	81.9 - 107	3	20
Ethylbenzene	1.99	mg/Kg	1	2.00	<0.0106	100	78.4 - 107	3	20
Xylene	6.02	mg/Kg	1	6.00	<0.00930	100	79.1 - 107	3	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)	2.27	2.06	mg/Kg	1	2.00	114	103	70.2 - 114
4-Bromofluorobenzene (4-BFB)	2.32	2.06	mg/Kg	1	2.00	116	103	69.8 - 121

Laboratory Control Spike (LCS-1)

QC Batch: 71884 | Date Analyzed: 2010-07-19 | Analyzed By: AG
Prep Batch: 61608 | QC Preparation: 2010-07-19 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	15.8	mg/Kg	1	20.0	<1.65	79	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	16.2	mg/Kg	1	20.0	<1.65	81	69.9 - 95.4	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
Trifluorotoluene (TFT)	2.52	2.59	mg/Kg	1	2.00	126	130	61.9 - 142
4-Bromofluorobenzene (4-BFB)	2.39	2.51	mg/Kg	1	2.00	120	126	68.2 - 132

Laboratory Control Spike (LCS-1)

QC Batch: 71893 | Date Analyzed: 2010-07-20 | Analyzed By: AR
Prep Batch: 61617 | QC Preparation: 2010-07-20 | 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	100	mg/Kg	1	100	<2.18	100	85 - 115	2	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: 71894 | Date Analyzed: 2010-07-20 | Analyzed By: AR
Prep Batch: 61618 | QC Preparation: 2010-07-20 | 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	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.

Matrix Spike (MS-1) Spiked Sample: 238016

QC Batch: 71872 | Date Analyzed: 2010-07-19 | Analyzed By: kg
Prep Batch: 61591 | QC Preparation: 2010-07-19 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	224	mg/Kg	1	250	<14.5	90	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	232	mg/Kg	1	250	<14.5	93	35.2 - 167.1	4	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	98.9	97.9	mg/Kg	1	100	99	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 238005

QC Batch: 71883 | Date Analyzed: 2010-07-19 | Analyzed By: AG
Prep Batch: 61608 | QC Preparation: 2010-07-19 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.04	mg/Kg	1	2.00	<0.0150	102	80.5 - 112
Toluene	2.10	mg/Kg	1	2.00	<0.00950	105	82.4 - 113
Ethylbenzene	2.16	mg/Kg	1	2.00	<0.0106	108	83.9 - 114
Xylene	6.49	mg/Kg	1	6.00	<0.00930	108	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	<0.0150	110	80.5 - 112	8	20
Toluene	[1]	2.27	mg/Kg	1	2.00	<0.00950	114	82.4 - 113	8	20
Ethylbenzene	[2]	2.35	mg/Kg	1	2.00	<0.0106	118	83.9 - 114	8	20
Xylene	[3]	7.08	mg/Kg	1	6.00	<0.00930	118	84 - 114	9	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)	1.22	1.67	mg/Kg	1	2	61	84	41.3 - 117
4-Bromofluorobenzene (4-BFB)	1.28	1.74	mg/Kg	1	2	64	87	35.5 - 129

[1]MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
[2]MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
[3]MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

Matrix Spike (MS-1) Spiked Sample: 238016

QC Batch: 71884 | Date Analyzed: 2010-07-19 | Analyzed By: AG
Prep Batch: 61608 | QC Preparation: 2010-07-19 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	15.3	mg/Kg	1	20.0	<1.65	76	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	16.1	mg/Kg	1	20.0	<1.65	80	61.8 - 114	5	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)	1.79	1.91	mg/Kg	1	2	90	96	50 - 162
4-Bromofluorobenzene (4-BFB)	1.81	1.92	mg/Kg	1	2	90	96	50 - 162

Matrix Spike (MS-1) Spiked Sample: 238002

QC Batch: 71893 | Date Analyzed: 2010-07-20 | Analyzed By: AR
Prep Batch: 61617 | QC Preparation: 2010-07-20 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10800	mg/Kg	100	10000	484	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	11100	mg/Kg	100	10000	484	106	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: 238013

QC Batch: 71894 | Date Analyzed: 2010-07-20 | Analyzed By: AR
Prep Batch: 61618 | QC Preparation: 2010-07-20 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	10000	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	104	85 - 115	4	20

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

Standard (CCV-1)

QC Batch: 71872 Date Analyzed: 2010-07-19 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	205	82	80 - 120	2010-07-19

Standard (CCV-2)

QC Batch: 71872 Date Analyzed: 2010-07-19 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	248	99	80 - 120	2010-07-19

Standard (CCV-3)

QC Batch: 71872 Date Analyzed: 2010-07-19 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	253	101	80 - 120	2010-07-19

Standard (CCV-1)

QC Batch: 71883 Date Analyzed: 2010-07-19 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	0.0946	95	80 - 120	2010-07-19
Toluene		mg/Kg	0.100	0.0975	98	80 - 120	2010-07-19
Ethylbenzene		mg/Kg	0.100	0.0978	98	80 - 120	2010-07-19
Xylene		mg/Kg	0.300	0.298	99	80 - 120	2010-07-19

Standard (CCV-2)

QC Batch: 71883 | Date Analyzed: 2010-07-19 | 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	0.102	102	80 - 120	2010-07-19
Toluene		mg/Kg	0.100	0.103	103	80 - 120	2010-07-19
Ethylbenzene		mg/Kg	0.100	0.102	102	80 - 120	2010-07-19
Xylene		mg/Kg	0.300	0.307	102	80 - 120	2010-07-19

Standard (CCV-3)

QC Batch: 71883 | Date Analyzed: 2010-07-19 | 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	0.0997	100	80 - 120	2010-07-19
Toluene		mg/Kg	0.100	0.100	100	80 - 120	2010-07-19
Ethylbenzene		mg/Kg	0.100	0.0992	99	80 - 120	2010-07-19
Xylene		mg/Kg	0.300	0.300	100	80 - 120	2010-07-19

Standard (CCV-1)

QC Batch: 71884 | Date Analyzed: 2010-07-19 | 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	1.10	110	80 - 120	2010-07-19

Standard (CCV-2)

QC Batch: 71884 | Date Analyzed: 2010-07-19 | 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	0.993	99	80 - 120	2010-07-19

Standard (CCV-3)

QC Batch: 71884 | Date Analyzed: 2010-07-19 | 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	0.980	98	80 - 120	2010-07-19

Standard (ICV-1)

QC Batch: 71893 Date Analyzed: 2010-07-20 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	2010-07-20

Standard (CCV-1)

QC Batch: 71893 Date Analyzed: 2010-07-20 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2010-07-20

Standard (ICV-1)

QC Batch: 71894 Date Analyzed: 2010-07-20 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.9	99	85 - 115	2010-07-20

Standard (CCV-1)

QC Batch: 71894 Date Analyzed: 2010-07-20 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	2010-07-20

Order #: 10071915

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME:	SITE MANAGER:
Chevron	Ike Tavarez

PROJECT NO.:	PROJECT NAME:
114-6400595	LSAU #25 Lea Co NM

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH TX1005 (Ext. to C35)	TPH 8015 MOD	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	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
237996	7/15		S		X	SW1	1				X		X	X												X				
997			S		X	SW2	1				X		X	X												X				
998			S		X	SW3	1				X		X	X												X				
999			S		X	SW4	1				X		X	X												X				
238000			S		X	SW5	1				X		X	X												X				
001			S		X	SW6	1				X		X	X												X				
002			S		X	SW7	1				X		X	X												X				
003			S		X	AH-1 0-1'	1				X		X	X												X				
004			S		X	AH-2 0-1'	1				X		X	X												X				
005			S		X	AH-3 0-1'	1				X		X	X												X				

RELINQUISHED BY: (Signature)	Date: 7/15/10 Time: 2:05	RECEIVED BY: (Signature)	Date: 7/19/10 Time: 14:05
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) TF JJ — Date: 7-15-10 Time:

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

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

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 3.8°c intact

REMARKS: All test B Midland

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

Order #: 10071915

Analysis Request of Chain of Custody Record

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

PAGE: 2 OF: 2

CLIENT NAME: Chevron

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400595

PROJECT NAME: LSAU #25

Lea Co NM

LAB I.D. NUMBER	DATE 2010	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH TX1005 (Ext. to C35) / 8015 MOD.	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	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
238006	7/15		S		X	AH-3 1-1.5'	1				X		X	X											X				
007			S		X	AH-4 0-1'	1				X		X	X											X				
008			S		X	AH-5 0-6"	1				X		X	X											X				

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature)	Date: 7/14/10 Time: 2:00	RECEIVED BY: (Signature)	Date: 7/14/10 Time: 14:05
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Initial) TF JJ — Date: 7-15-10 Time:

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

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

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: (Yes) No

SAMPLE CONDITION WHEN RECEIVED: 3.3°c intact

REMARKS:

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