SITE INFORMATION

2RP-876

Report Type: Closure Report

General Site Info	rmation:						and the second	
Site:		Southern California 14 Federal #1						
Company:		W/K Land C	ompany					
Section, Townsh	ip and Range	Unit H	Sec 14	T 19S	R 30E		••	
Lease Number:		API-30-015-0	04600	•				
County:		Eddy Count	y				,	
GPS:		10 1 1	32.66138° N			103.935	i16° W	
Surface Owner:		Federal						
Mineral Owner:								
Directions:		From the inter lease road and left and travel	section of Hwy 360 d travel 0.9 miles, t 2.6 miles to site.	and CR 22 urn left and	2, travel eas travel 0.3 mi	t on CR 222 for les, turn right ar	4.7 miles, turn left onto nd travel 0.4 miles, turn	
Poloaco Data				م مرکز میں جو میں اور اور ور میں اور				
Data Poloacod	te " The second s	unit in the state of the state	·高生地,高生,是非一种生活。	Ab. 1984 X 199		FIVED	A CALL AND	
Tupo Polosco:			·····					
Source of Contain	ination:				MA	R 3 6 2012		
Source of Contain		57 bble						
Fluids Recovered:		0 hbls				O ARTES	A	
Official Commun	lication		And Contraction of the Second					
Name:	Bex Walker	SEARCH LANN PARK - "Fr		1997 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2	like Tavare		an ng mga ng manang ng mga ng mga Ng mga ng mga	
Company:	W/K Land Company				Tetra Tec	h	····	
Address:	011 Kimbark Street	,			1010 N B	ia Spring		
RO Box	STI Kinbark Street		-		1910 N. D	ig opning		
City:	Longmont Co 8050				Midland T			
Oky. Phono numbor:	(202) 442-0258				(420) 680	4550		
	(303) 442-0236				(432) 002-	4559		
Fax:					iles tours	- Ototroto ob v		
Emali:			L.,		IKe.tavare	ez@tetratecn.c	<u>.010</u>	
Ranking Criteria								
Depth to Groundw	ater:		Ranking Score			Site Data		
<50 ft			20					
50-99 ft			10		10			
>100 ft.	· · · · · · · · · · · · · · · · · · ·		0					
WellHead Protectiv	<u></u>		Banking Score	1		Site Data		
Water Source <1.0	00 ft Private <200 ft		20			Sile Dala	<u> </u>	
Water Source >1,0	00 ft., Private >200 ft	•	0			0		
	· · · · · · · · · · · · · · · · · · ·							
Surface Body of Water:		Ranking Score			Site Data			
<200 II. 200 ft - 1 000 ft	· · · · · · · · · · · · · · · · · · ·		20					
>1,000 ft.			0		· · · · ·	0		
·····	<u> </u>				and a second second	-		
Toti Toti	al Ranking Score:		10					
		Accepta	ble Soil RRAL	ma/ka)	X			
		Benzene	Total BTEX	TPH	avertie :			
		10	50	1,000	-			
		The second s	ter and the second s					



February 27, 2012

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

Re: Closure Report for W/K Land Company, Southern California Federal 14-1, Unit H, Section 14, Township 19 South, Range 30 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by W/K Land Company to assess a spill from the Southern California Federal 14-1 located in Unit H, Section 14, Township 19 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.66138°, W 103.93516°. The site location is shown on Figures 1 and 2.

Background

According to the BLM inspection, oil staining was noted inside the dike from under one of the oil tank. The BLM requested W/K Land Company to submit a C-141 to the NMOCD to remediate the impacted soil to NMOCD spill guidelines. According to the State of New Mexico C-141 Initial Report, the leak was discovered on June 13, 2011, and released approximately fifty seven (57) barrels of produced fluid from an oil tank. Zero (0) barrels of standing fluids were recovered. The spill initiated from the oil tank and remained inside of the firewalls of the tank battery. The spill area measured 25' x 55'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 14. According to the NMOCD groundwater map, the average depth to groundwater in this area is approximately 75' below surface. The groundwater information is shown in Appendix B.



Regulatory

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

Closure Activities and Confirmation Sampling

On September 20, 2011, Tetra Tech personnel supervised the removal of impacted material. Prior to excavation, the two tanks were removed from inside the firewall onto the facility pad. The excavated area measured 25' x 55' at a depth of 6.0' below surface. A total of 330 cubic yards were excavated and transported to proper disposal.

Once completed, Tetra Tech collected confirmation samples from the excavation for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The confirmation sample locations are shown on Figure 3.

Conclusion and Recommendation

Referring to Table 1, the TPH and BTEX concentrations were all below the RRAL. The chlorides detected do not appear to be an environmental concern. Once approved, the excavation was backfilled with clean soil to grade. Based upon the work performed at this site and the results of the assessment, W/K Land Company requests closure of this spill issue. The final C-141 is enclosed in Appendix A.



If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted, Tetra Tech Inc

lke#avarez Project Manager

cc: Rex Walker - W/K Land Co.

cc: Jim Amos - BLM

.

FIGURES



Drawn By: Isabel Marmolejo



Drawn By: leabel Marmolek



TABLES

Table 1 W/K Land Company Southern California 14 Federal #1 Eddy County, New Mexico

Semple ID		O a marka Data	Sample	Soil	Status		TPH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sa		Sample Date	Uepth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
CS-1	South Side Wall	9/20/2011	3'	Х		9.57	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<200
CS-2	West Side Wall	9/20/2011	3'	Х		3.20	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<200
CS-3	Bottom Hole	9/20/2011	6'	Х		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<200
CS-4	East Side Wall	9/20/2011	3'	Х		5.93	135	141	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<200
CS-5	South Side Wall	9/20/2011	3'	Х		2.56	<50.0	<50.0	-	-	-	-	-	201
CS-6	Bottom Hole	9/20/2011	6'	Х		28.2	525	553	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<200
CS-7	North Side Wall	9/20/2011	3'	Х		3.99	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	358
CS-8	West Side Wall	9/20/2011	3'	Х		<2.00	<50.0	<50.0	-	-	-	-	-	<200
CS-9	Bottom Hole	9/20/2011	6'	Х		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	201
CS-10	East Side Wall	9/20/2011	3'	Х		<2.00	<50.0	<50.0	-	-	-	-	-	<200
CS-11	South Side Wall	9/20/2011	3'	Х		<2.00	<50.0	<50.0	-	-	-	-	-	<200

(--)

Not Analyzed

BEB

Below Excavation Bottom

APPENDIX A

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 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 W/K Land Company	Contact Carlos A de la Cruz		
Address: 911 Kimbark Street, Longmont, CO 80501	Telephone No. (303) 442-0258		
Facility Name: Southern California 14 Federal #1	Facility Type Tank Battery		

Surface Owner: Federal	Mineral Owner	Lease No. API 3001504600			
LOCATION OF RELEASE					
	A Court has a Number of the Prove Court				

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
Н	14	195	30E					Eddy

Latitude N 32.66138 Longitude W 103.93516

NATURE OF RELEASE

Type of Release Oil	Volume of Release: estimated 57 bbls	Volume Ro 0 bbls	ecovered					
Source of Release Oil tank	Date and Hour of Occurrence	Date and F 6/13/11 Di	lour of Discovery scovered by BLM					
Was Immediate Notice Given?	If YES, To Whom?							
By Whom?	Date and Hour	n aa aa ah						
Was a Watercourse Reached?	If YES, Volume Impacting the W N/A	atercourse.						
If a Watercourse was Impacted, Describe Fully.* N/A								
Describe Cause of Problem and Remedial Action Taken.*								
Hole on bottom or side of oil tank. The remaining oil in the tank will ren	Hole on bottom or side of oil tank. The remaining oil in the tank will removed to repair or replace tank.							
Describe Area Affected and Cleanup Action Taken.*								
The spill area was contained inside the facility firewalls. The spill area was to proper disposal. Based on the NMOCD RRAL, either a work plan of	vill be scraped and sampled for evalue or a closure report will be submitted for	ation. The exc or review and a	avated soil will be transported approval.					
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	the best of my knowledge and unders notifications and perform corrective a he NMOCD marked as "Final Report" ite contamination that pose a threat to does not relieve the operator of respon	tand that pursu actions for relea " does not relic ground water, nsibility for co	nant to NMOCD rules and ases which may endanger eve the operator of liability surface water, human health mpliance with any other					
Signature: Que Que Walle	<u>OIL CONSER</u>	VATION	DIVISION					
Printed Name Rex Ross Walker	Printed Name Rex Ross Walker Approved by District Supervisor:							
Title: Managing Partner	Approval Date:	Expiration E	Date:					
E-mail Address: cowboy@sombrero.com	Conditions of Approval:		Attached					
Date: 08/23/2011 Phone: 303-442-0258								

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

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

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

Lease No. 3001504600

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company W/K Land Company	Contact Carlos A de la Cruz		
Address 911 Kimbark Street, Longmont, CO 80501	Telephone No. (303) 442-0258		
Facility Name_Southern California 14 Federal #1	Facility Type Tank Battery		

Surface Owner Federal

LOCATION OF RELEASE

Mineral Owner

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
н	14	198	30E					Eddy

Latitude N 32.66138 Longitude W 103.93516

NATURE OF RELEASE

Type of Release Oil	Volume of Release 57 bbls	Volume Re	covered 0 bbls
Source of Release	Date and Hour of Occurrence	Date and H	our of Discovery
Oil tank	Unknown	6/13/11	
Was Immediate Notice Given?	If YES, To Whom?		
🗌 Yes 🛛 No 🗌 Not Required			
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	
🗌 Yes 🛛 No	N/A		
If a Watercourse was Impacted, Describe Fully.*	I		<u>, , , , , , , , , , , , , , , , , , , </u>
N/A			
Describe Cause of Problem and Remedial Action Taken.*			
Hole on the bottom or side of the oil tank. The remaining oil in the tank w	ill be removed to repair or replace ta	nk	
Describe Area Affected and Cleanup Action Taken.*			
The spill occurred inside the facility firewalls. The impacted soil was rem	oved and hauled to proper disposal.	Tetra Tech co	llected confirmation samples
and showed samples below the RRAL for TPH and BTEX. The chloride	concentrations were not an environm	ental concern.	The excavation was
backfilled with clean soil. A closure report has been prepared and submitt	ed to the NMOCD and BLM for revi	ew and approv	val.
I hereby certify that the information given above is true and complete to th	e best of my knowledge and understa	and that pursu	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release no	tifications and perform corrective ac	tions for relea	ses which may endanger
public health or the environment. The acceptance of a C-141 report by the	NMOCD marked as "Final Report"	does not reliev	ve the operator of liability
should their operations have failed to adequately investigate and remediate	contamination that pose a threat to g	round water,	surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report do	es not relieve the operator of response	sibility for cor	npliance with any other
federal, state, or local laws and/or regulations.			
Innet	OIL CONSERV	<u>ATION I</u>	DIVISION
Signature:			
Printed Name: Ike Tayarez (agent for W/K L and Company)	Approved by District Supervisor:		
Timed Ivane, IN Tavarez (agen for W/K Land Company)			
Title: Project Manager A	Approval Date:	Expiration Da	ate:
E-mail Address: ike.tavarez@tetratech.com	conditions of Approval:		Attached
Date: $2/21/1$ Phone: (432) 682-4559			

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data Average Depth to Groundwater (ft) W/K Land Company - Southern California 14 Federal #1 Tank Battery Eddy County, New Mexico

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

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

	East			
6	5	4	3	2
7	8	9 Aaljam	10 ar	11
18	17	16	15	14 317
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35 261

	19 :	South	29	9 East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 123 101
19	20 63	21	22	23	24
30	29	28	27	26	25
31	32	33	34 62' 60	35 121 110	36 115

	19 Sc	outh	30	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14 SITE	13
19	20	21	22	23	24
30 90	29	28	27	26	25
31 115	32	33	34	35	36

	19 Sc	outh	31	East
6	5 SITE	4	3	2
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28 180	27	26
31	32	33 101	34	35

	20 Sc	outh	29	East	
6	5	4	3	2	1
			91		
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
	62				
30	29	28	27	26	25
52					
31	32	33	34	35	36

115						
	20 5	outh		30 Eas	t	
6	5 3.	5 4	3 6	2	1	
7	8	9	10	11	12	
18	17	16 29	15	14	13	
19	20 29	21 150	22	23	24	
30	29	28	27	26	25	
31	32 170	33 191	34	35	36	

	20 Sc	outh	31	East
6	5	4	3	2
7	8	9	10 130	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35

New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

MMOCD - Groundwater Data

APPENDIX C

.

Summary Report

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

Project Location:	Eddy Co., NM
Project Name:	WKLC/So. California 14 Fed. #1
Project Number:	114-6401000

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
278063	CS #1 South Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
278064	CS $#2$ West Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
278065	CS #3 Bottom Hole 6'	soil	2011-09-20	00:00	2011-09-22
278066	CS #4 East Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
278067	CS #5 South Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
278068	CS $\#6$ Bottom Hole 6'	soil	2011-09-20	00:00	2011-09-22
278069	CS #7 North Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
278070	CS #8 West Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
278071	CS #9 Bottom Hole 6'	soil	2011-09-20	00:00	2011-09-22
278072	CS #10 East Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
278073	CS $\#11$ South Side Wall 3'	soil	2011-09-20	00:00	2011-09-22

			BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
278063 - CS #1 South Side Wall 3'	< 0.0200	< 0.0200	<0.0200 qs	<0.0200 qs	<50.0 Qr Qs	9.57
278064 - CS #2 West Side Wall 3'	< 0.0200	< 0.0200	<0.0200 q.	<0.0200 Qs	<50.0 Qr,Qs	3.20
278065 - CS #3 Bottom Hole 6'	< 0.0200	< 0.0200	<0.0200 Qs	<0.0200 Qs	<50.0 qr,qs	< 2.00
278066 - CS #4 East Side Wall 3'	< 0.0200	< 0.0200	<0.0200 qs	<0.0200 Qs	135 Qr,Qs	5.93
278067 - CS #5 South Side Wall 3'					<50.0 qr,qs	2.56
278068 - CS #6 Bottom Hole 6'	< 0.0200	< 0.0200	<0.0200 Q#	<0.0200 Q#	525 Qr,Qs	28.2
278069 - CS #7 North Side Wall 3'	< 0.0200	< 0.0200	<0.0200 Qs	<0.0200 Qa	<50.0 Qr,Q8	3.99
278070 - CS #8 West Side Wall 3'					<50.0 Qr,Qs	$<\!2.00$
278071 - CS #9 Bottom Hole 6'	< 0.0200	< 0.0200	<0.0200 Qs	<0.0200 Qs	<50.0 Qr,Qs	<2.00
278072 - CS #10 East Side Wall 3'					<50.0 Qr,Qs	<2.00
278073 - CS #11 South Side Wall 3'					<50.0 qr,q8	<2.00

Sample: 278063 - CS #1 South Side Wall 3'

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: October 4, 2011

Work Order: 11092217

Report Date: October 4, 2011		Work Order: 11092217	Page Number: 2 of 3		
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		<200	mg/Kg	4	
Sample: 278064 -	CS #2 West Side W	Vall 3'			
Param	Flag	Result	Units	RL	
Chloride	<u>_</u>	<200	mg/Kg	4	
Sample: 278065 -	CS #3 Bottom Hole	e 6 '			
Param	Flag	Result	Units	RL	
Chloride		<200	mg/Kg	4	
Sample: 278066 -	CS #4 East Side Wa	all 3'			
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		<200	mg/Kg	4	
Sample: 278067 -	CS #5 South Side V	Vall 3'			
Param	Flag	Result	Units	BL	
Chloride		201	mg/Kg	4	
Sample: 278068 -	CS #6 Bottom Hole	e 6 '			
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		<200	mg/Kg	4	
Sample: 278069 -	CS #7 North Side V	Vall 3'			
Param	Flag	Result	Units	RL	
Chloride		358	mg/Kg	4	
Sample: 278070 -	CS #8 West Side W	all 3'			
Param	Flag	Result	Units	\mathbf{RL}	
Chloride	······································	<200	mg/Kg	4	

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Report Date: October 4, 2011		Work Order: 11092217		Page Number: 3 of 3				
Sample: 278071 - CS #9 Bottom Hole 6'								
Param	Flag	Result	Units	\mathbf{RL}				
Chloride		201	mg/Kg	4				
Sample: 278072	CS #10 Fast Side W	7-11 21						
Param	Flag	Regult	Unita	PI				
Chloride	<u>г</u> а <u>в</u>	<200	mg/Kg	4				
Sample: 278073	- CS #11 South Side	Wall 3'						
Param	Flag	Result	Units	RL				

<200

mg/Kg

.

4

Chloride

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.



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: October 4, 2011

Work Order: 11092217

Project Location:Eddy Co., NMProject Name:WKLC/So. California 14 Fed. #1Project Number:114-6401000

Enclosed are	the Analytical	Report and C	Quality (Control Report for	r the following sa	mple(s) submitted to	TraceAnalysis, In
--------------	----------------	--------------	-----------	--------------------	--------------------	--------	----------------	-------------------

		Date	Time	Date
Description	Matrix	Taken	Taken	Received
CS #1 South Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
CS #2 West Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
CS #3 Bottom Hole 6'	soil	2011-09-20	00:00	2011-09-22
CS #4 East Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
CS #5 South Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
CS #6 Bottom Hole 6'	soil	2011-09-20	00:00	2011-09-22
CS #7 North Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
CS #8 West Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
CS #9 Bottom Hole 6'	soil	2011-09-20	00:00	2011-09-22
CS #10 East Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
CS #11 South Side Wall 3'	soil	2011-09-20	00:00	2011-09-22
	Description CS #1 South Side Wall 3' CS #2 West Side Wall 3' CS #3 Bottom Hole 6' CS #4 East Side Wall 3' CS #5 South Side Wall 3' CS #6 Bottom Hole 6' CS #7 North Side Wall 3' CS #8 West Side Wall 3' CS #9 Bottom Hole 6' CS #10 East Side Wall 3' CS #11 South Side Wall 3'	DescriptionMatrixCS #1 South Side Wall 3'soilCS #2 West Side Wall 3'soilCS #3 Bottom Hole 6'soilCS #4 East Side Wall 3'soilCS #5 South Side Wall 3'soilCS #6 Bottom Hole 6'soilCS #7 North Side Wall 3'soilCS #8 West Side Wall 3'soilCS #9 Bottom Hole 6'soilCS #10 East Side Wall 3'soilCS #11 South Side Wall 3'soil	Date Description Matrix Taken CS #1 South Side Wall 3' soil 2011-09-20 CS #2 West Side Wall 3' soil 2011-09-20 CS #3 Bottom Hole 6' soil 2011-09-20 CS #4 East Side Wall 3' soil 2011-09-20 CS #4 East Side Wall 3' soil 2011-09-20 CS #5 South Side Wall 3' soil 2011-09-20 CS #6 Bottom Hole 6' soil 2011-09-20 CS #7 North Side Wall 3' soil 2011-09-20 CS #8 West Side Wall 3' soil 2011-09-20 CS #8 West Side Wall 3' soil 2011-09-20 CS #9 Bottom Hole 6' soil 2011-09-20 CS #9 Bottom Hole 6' soil 2011-09-20 CS #10 East Side Wall 3' soil 2011-09-20 CS #11 South Side Wall 3' soil 2011-09-20	Date Time Description Matrix Taken Taken CS #1 South Side Wall 3' soil 2011-09-20 00:00 CS #2 West Side Wall 3' soil 2011-09-20 00:00 CS #3 Bottom Hole 6' soil 2011-09-20 00:00 CS #4 East Side Wall 3' soil 2011-09-20 00:00 CS #5 South Side Wall 3' soil 2011-09-20 00:00 CS #6 Bottom Hole 6' soil 2011-09-20 00:00 CS #7 North Side Wall 3' soil 2011-09-20 00:00 CS #8 West Side Wall 3' soil 2011-09-20 00:00 CS #7 North Side Wall 3' soil 2011-09-20 00:00 CS #8 West Side Wall 3' soil 2011-09-20 00:00 CS #9 Bottom Hole 6' soil 2011-09-20 00:00 CS #10 East Side Wall 3' soil 2011-09-20 00:00 CS #11 South Side Wall 3' soil 2011-09-20 00:00

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 32 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael abel

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

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Case Narrative

Samples for project WKLC/So. California 14 Fed. #1 were received by TraceAnalysis, Inc. on 2011-09-22 and assigned to work order 11092217. Samples for work order 11092217 were received intact at a temperature of 1.0 C.

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

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	72241	2011-09-27 at 12:00	85074	2011-09-27 at 17:50
Chloride (Titration)	SM 4500-Cl B	72245	2011-09-27 at 10:20	85171	2011-09-29 at 15:16
Chloride (Titration)	SM 4500-Cl B	72274	2011-09-29 at 09:22	85171	2011-09-29 at 15:16
Chloride (Titration)	SM 4500-Cl B	72274	2011-09-29 at 09:22	85172	2011-09-30 at 15:18
TPH DRO - NEW	S 8015 D	72249	2011-09-27 at 15:37	85087	2011-09-27 at 15:37
TPH GRO	S 8015 D	72241	2011-09-27 at 12:00	85075	2011-09-29 at 18:18

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 11092217 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: 278063 - CS #1 South Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 85074 72241		Analytica Date Ana Sample F	al Method alyzed: Preparatio	l: S 8021 2011-0 n: 2011-0	B 19-27 19-27		Prep Met Analyzed Prepared	hod: S 5035 By: AG By: AG
					\mathbf{RL}				
Parameter		Flag	Cert		Result	U	nits	Dilution	RL
Benzene		U	1		< 0.0200	mg	/Kg	1	0.0200
Toluene		υ	1		< 0.0200	mg	/Kg	1	0.0200
Ethylbenzene	1	Qs,U	1		< 0.0200	mg	/Kg	1	0.0200
Xylene		Q∎,U	1		< 0.0200	mg	/Kg	1	0.0200
Surrogate		Flag	r Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	me (TET)	I IUE	,	2 12	mg/Kg	1	2.00	106	82.8 - 143.1
4-Bromofluor	obenzene (4-BFB)			2.12	mg/Kg	1	2.00	106	70.6 - 179

Sample: 278063 - CS #1 South Side Wall 3'

Laboratory:MidlandAnalysis:Chloride (Titration)QC Batch:85171Prep Batch:72245		Analytic Date Ar Sample	cal Method: aalyzed: Preparation:	SM 4500-Cl B 2011-09-29 2011-09-28	Prep Method: Analyzed By: Prepared By:	N/A AR AR
			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	\mathbf{RL}
Chloride	U		<200	mg/Kg	50	4.00

Sample: 278063 - CS #1 South Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - NEW 85087 72249		Analytic Date An Sample	cal Method: nalyzed: Preparation:	S 8015 D 2011-09-27 2011-09-27	Prep Method: Analyzed By: Prepared By:	N/A kg kg
				\mathbf{RL}			
Parameter		Flag	Cert	Result	Units	Dilution	\mathbf{RL}
DRO		Qr,Qs,U	1	<50.0	mg/Kg	1	50.0

Report Date: Oc 114-6401000		WK	Work Orde LC/So. Cali	#1	Page Number: 7 of 32 Eddy Co., NM			
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		d	70.6	mg/Kg	1	100	71	67.5 - 147.1

Sample: 278063 - CS #1 South Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 85075 72241			Analytic Date An Sample	cal Method aalyzed: Preparatio	l: S 801 2011- on: 2011-	5 D 09-29 09-27		Prep Metho Analyzed B Prepared B	d: S 5035 y: AG y: AG
						\mathbf{RL}				
Parameter		Flag		Cert]	Result	Un	its	Dilution	\mathbf{RL}
GRO				1		9.57	mg/l	Kg	1	2.00
Surrogate			Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)				1.87	mg/Kg	1	2.00	94	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				2.20	mg/Kg	1	2.00	110	22.4 - 149

Sample: 278064 - CS #2 West Side Wall 3'

Laboratory: M Analysis: B' QC Batch: 85 Prep Batch: 72	idland TEX 5074 2241		Analytica Date Ana Sample F	al Method alyzed: Preparatio	l: S 8021 2011-(on: 2011-(1B)9-27)9-27		Prep Meth Analyzed 1 Prepared 1	lod: S 5035 By: AG By: AG
					RL				
Parameter		Flag	Cert		Result	U	nits	Dilution	\mathbf{RL}
Benzene		υ	1		< 0.0200	mg	/Kg	1	0.0200
Toluene		υ	1		< 0.0200	mg	/Kg	1	0.0200
Ethylbenzene		Qs,U	1		< 0.0200	mg	/Kg	1	0.0200
Xylene		Q8,U	1		< 0.0200	mg,	/Kg	1	0.0200
Surrogate		\mathbf{Fl}	ag Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene	(TFT)			2.12	mg/Kg	1	2.00	106	82.8 - 143.1
4-Bromofluorobe	enzene (4-BFB)			2.11	mg/Kg	1	2.00	106	70.6 - 179

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Sample: 278064 - CS #2 West Side Wall 3'

Laboratory:	Midland					
Analysis:	Chloride (Titration)	Analytic	al Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	85171	Date An	alyzed:	2011-09-29	Analyzed By:	\mathbf{AR}
Prep Batch:	72245	Sample I	Preparation:	2011-09-28	Prepared By:	AR
			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	\mathbf{RL}
Chloride	U		<200	mg/Kg	50	4.00

Sample: 278064 - CS #2 West Side Wall 3'

n-Tricosane			76.6	mg/Kg	1	100	77	67.5 - 1	147.1
Surrogate	\mathbf{Flag}	Cert	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limi	its
						Spike	Percent	Recov	very
DRO		Qr,Qs,U	1		<50.0	mg/Kg	1		50.0
Parameter		Flag	Cert	i	RL Result	Units	Dilution		RL
Prep Batch:	72249		Sai	mple Prepa	aration: 2011	-09-27	Prepared By:		kg
QC Batch:	85087		Da	te Analyze	ed: 2011	-09-27	Analyz	ed By:	kg
Analysis:	TPH DRO - NE	W	An	alytical M	ethod: S 80	15 D	Prep M	lethod:	N/A

Sample: 278064 - CS #2 West Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 85075 72241			Analytic Date An Sample 1	al Method alyzed: Preparation	: S 801 2011- n: 2011-	5 D 09-29 09-27		Prep Metho Analyzed B Prepared B	od: S 5035 ly: AG y: AG
						\mathbf{RL}				
Parameter		Flag		Cert	Η	Result	Ui	nits	Dilution	\mathbf{RL}
GRO	_			1		3.20	mg/	Kg	1	2.00
Surrogate			Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ne (TFT)			· · ·	1.92	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.99	mg/Kg	1	2.00	100	22.4 - 149

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Sample: 278065 - CS #3 Bottom Hole 6'

Laboratory: N	Midland									
Analysis: H	BTEX		Analytica	al Method	: S 8021	lB		Prep Met	hod: S	5035
QC Batch: 8	35074		Date Ana	alyzed:	2011-0)9-27		Analyzed	By: A	G
Prep Batch: 7	/2241		Sample F	Preparatio	n: 2011-0)9-27		Prepared	By: A	G
					\mathbf{RL}					
Parameter		Flag	Cert		Result	U	nits	Dilution		\mathbf{RL}
Benzene		U	1		< 0.0200	mg/	/Kg	1	0.	.0200
Toluene		υ	1		< 0.0200	mg	/Kg	1	0.	.0200
Ethylbenzene		Qs,U	1		< 0.0200	mg	/Kg	1	0.	.0200
Xylene		Qs,U	1		< 0.0200	mg/	/Kg	1	0.	.0200
							Spike	Percent	Recov	very
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limi	its
Trifluorotoluen	e (TFT)			2.10	mg/Kg	1	2.00	105	82.8 - 1	143.1
4-Bromofluorob	benzene (4-BFB)			2.09	mg/Kg	1	2.00	104	70.6 -	179

Sample: 278065 - CS #3 Bottom Hole 6'

Laboratory: Analysis: QC Batch: Prep Batch:	Laboratory: Midland Analysis: Chloride (Titration) QC Batch: 85171 Prep Batch: 72245		al Method: alyzed: Preparation:	SM 4500-Cl B 2011-09-29 2011-09-28	Prep Method: Analyzed By: Prepared By:	N/A AR AR
			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	\mathbf{RL}
Chloride	U		<200	mg/Kg	50	4.00

Sample: 278065 - CS #3 Bottom Hole 6'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - NH 85087 72249	EW	Ana Dat San	alytical M e Analyze nple Prepa	ethod: ed: aration:	S 8015 2011-0 2011-0	D 9-27 9-27	Prep M Analyz Prepar	4ethod: ed By: ed By:	N/A kg kg
					\mathbf{RL}					
Parameter		Flag	Cert		Result		Units	Dilution		RL
DRO		Qr,Qs,U	1		<50.0		mg/Kg	1		50.0
							Spike	Percent	Reco	overy
Surrogate	\mathbf{F} lag	Cert	Result	Units	Dilu	ition	\mathbf{Amount}	Recovery	Lin	nits
n-Tricosane			76.6	mg/Kg		1	100	77	67.5 -	147.1

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Sample: 278065 - CS #3 Bottom Hole 6'

Laboratory: Analysis:	Midland TPH GRO 85075			Analytic	al Method	d: S 80	15 D			Prep Metho	od: S 5035
Prep Batch:	72241			Sample 1	Preparatio	on: 2011	-09-29			Prepared B	y: AG
						\mathbf{RL}					
Parameter		Flag		Cert		Result		Units	3	Dilution	\mathbf{RL}
GRO				1		< 2.00	r	ng/Kg	S	1	2.00
Surrogate			Flag	Cert	Result	Units	Diluti	ion	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)	·····	1.1005	0011	1.91	mg/Kg	1		2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.99	mg/Kg	1		2.00	100	22.4 - 149

Sample: 278066 - CS #4 East Side Wall 3'

Laboratory:	Midland									
Analysis:	BTEX		Analytica	al Method	I: S 8021	lΒ		Prep Met	hod:	S 5035
QC Batch:	85074		Date Ana	alyzed:	2011-0	9-27		Analyzed	By:	AG
Prep Batch:	72241		Sample F	Preparatio	n: 2011-0	9-27		Prepared	By:	AG
					\mathbf{RL}					
Parameter		Flag	Cert		Result	U	nits	Dilution		\mathbf{RL}
Benzene		U	1		< 0.0200	mg	′Kg	1		0.0200
Toluene		U	1		< 0.0200	mg	′Kg	1		0.0200
Ethylbenzene		Qs,U	1		< 0.0200	mg	′Kg	1		0.0200
Xylene		Qs,U	1		< 0.0200	mg/	/Kg	1		0.0200
							Spike	Percent	Re	covery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	\mathbf{L}	imits
Trifluorotolue	ne (TFT)			2.08	mg/Kg	1	2.00	104	82.8	- 143.1
4-Bromofluor	obenzene (4-BFB)			2.08	mg/Kg	1	2.00	104	70.	6 - 179

Sample: 278066 - CS #4 East Side Wall 3'

Laboratory: Analysis:	Midland Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	85171	Date Analyzed:	2011-09-29	Analyzed By:	AR
Prep Batch:	72245	Sample Preparation:	2011-09-28	Prepared By:	\mathbf{AR}

continued ...

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sample 278066 continued ...

			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	RL
			BL			
Parameter	\mathbf{Flag}	Cert	Result	Units	Dilution	\mathbf{RL}
Chloride	υ		<200	mg/Kg	50	4.00

Sample: 278066 - CS #4 East Side Wall 3'

n-Tricosane			91.8	mg/Kg	1	100	92	67.5 -	147.1
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Reco Lin	very nits
DRO		Qr,Qa	1		135	mg/Kg	1		50.0
Parameter		Flag	Cert	F	RL Result	Units	Dilution		\mathbf{RL}
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - NE ⁷ 85087 72249	An Da Sar	alytical Me te Analyzec nple Prepar	thod: S 801 l: 2011- ration: 2011-	5 D 09-27 09-27	Prep M Analyz Prepar	Prep Method: Analyzed By: Prepared By:		

Sample: 278066 - CS #4 East Side Wall 3'

Laboratory:MidlandAnalysis:TPH GROQC Batch:85075Prep Batch:72241				Analytic Date An Sample	al Methoo alyzed: Preparatio	l: S 801 2011- on: 2011-	5 D 09-29 09-27		Prep Metho Analyzed E Prepared B	od: S 5035 By: AG By: AG
						\mathbf{RL}				
Parameter		Flag		Cert		Result	Un	its	Dilution	\mathbf{RL}
GRO				1		5.93	mg/I	ζg	1	2.00
Surrogate			Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)				1.91	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				2.01	mg/Kg	1	2.00	100	22.4 - 149

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Sample: 278067 - CS #5 South Side Wall 3'

Chloride			201	mg/Kg	50	4.00
Parameter	Flag	Cert	RL Result	Units	Dilution	\mathbf{RL}
Prep Batch:	72274	Sample 1	Preparation:	2011-09-29	Prepared By:	AR
QC Batch:	85171	Date An	alyzed:	2011-09-29	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytic	al Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland					

Sample: 278067 - CS #5 South Side Wall 3'

n-Tricosane			76.8	mg/Kg	1	100	77	67.5 - 147.1
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
						Spike	Percent	Recovery
DRO		Qr,Qs,U	1		<50.0	mg/Kg	1	50.0
Parameter		Flag	Cert		RL Result	Units	Dilution	RL
Prep Batch:	72249	Sar	nple Prepa	aration: 2011	-09-27	Prepar	ed By: kg	
OC Batch:	85087		Dat	te Analyze	d: 2011	-09-27	Analyz	ed By: kg
Laboratory: Analysis:	TPH DRO - NEV	N	Analytical Method: S 8015 D				Prep M	fethod: N/A

Sample: 278067 - CS #5 South Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 85075 72241			Analytic Date Ar Sample	cal Methoo alyzed: Preparatio	d: S 801 2011- on: 2011-	15 D -09-29 -09-27		Prep Metho Analyzed B Prepared B	od: S 5035 y: AG y: AG
						\mathbf{RL}				
Parameter		Flag		Cert		Result	Un	its	Dilution	\mathbf{RL}
GRO				1		2.56	mg/l	Kg	1	2.00
Surrogate			Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)				1.93	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.93	mg/Kg	1	2.00	96	22.4 - 149

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Sample: 278068 - CS #6 Bottom Hole 6'

Laboratory: Midlane	d							
Analysis: BTEX		Analytica	al Method	: S 8021	IB		Prep Met	hod: S 5035
QC Batch: 85074		Date Ana	alyzed:	vzed: 2011-09-27			Analyzed	By: AG
Prep Batch: 72241		Sample F	Preparation	n: 2011-0	9-27		Prepared	By: AG
				RL				
Parameter	Flag	Cert		Result	U	nits	Dilution	\mathbf{RL}
Benzene	υ	1		< 0.0200	mg/	'Kg	1	0.0200
Toluene	υ	1		< 0.0200	mg/	'Kg	1	0.0200
Ethylbenzene	Qs,U	1		<0.0200	mg/	'Kg	1	0.0200
Xylene	Qs,U	1		< 0.0200	mg/	'Kg	1	0.0200
						Spike	Percent	Recovery
Surrogate	Flag	g Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT	.)	• • • • • • • • • • • • • • • • • • •	2.02	mg/Kg	1	2.00	101	82.8 - 143.1
4-Bromofluorobenzene	e (4-BFB)		2.07	mg/Kg	1	2.00	104	70.6 - 179

Sample: 278068 - CS #6 Bottom Hole 6'

Laboratory:	Midland					
Analysis:	Chloride (Titration)	Analyt	ical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	85171	Date A	nalyzed:	2011-09-29	Analyzed By:	AR
Prep Batch:	72274	Sample	Preparation:	2011-09-29	Prepared By:	AR
			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	\mathbf{RL}
Chloride	U		<200	mg/Kg	50	4.00

Sample: 278068 - CS #6 Bottom Hole 6'

Analysical Method:Frep Met	n-Tricosane			106	mg/Kg	1	100	106	67.5 - 1	47.1
QC Batch:85087Date Analyzed:2011-09-27Analyzed By:kPrep Batch:72249Sample Preparation:2011-09-27Prepared By:kRLRLRLDilutionDROQr,Qs1525mg/Kg15	Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recove Limit	ery ts
QC Batch: 85087 Date Analyzed: 2011-09-27 Analyzed By: k Prep Batch: 72249 Sample Preparation: 2011-09-27 Prepared By: k RL Parameter Flag Cert Result Units Dilution	DRO		Qr,Qs	1		525	mg/Kg	1		50.0
QC Batch:85087Date Analyzed:2011-09-27Analyzed By:kPrep Batch:72249Sample Preparation:2011-09-27Prepared By:k	Parameter		Flag	Cert	1	RL Result	Units	Dilution		\mathbf{RL}
Analysis' TPH DRO - NEW Analytical Method: S 8015 D Pren Method: N	Analysis: QC Batch: Prep Batch:	TPH DRO - NE 85087 72249	An Da Sa	alytical Me te Analyze mple Prepa	ethod: S 80 d: 2011	15 D -09-27 -09-27	Prep M Analyz Prepar	fethod: 1 æd By: 1 æd By: 1	N/A kg kg	

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Sample: 278068 - CS #6 Bottom Hole 6'

Laboratory:	Midland									
Analysis:	TPH GRO			Analytic	al Method	l: S 801	5 D		Prep Metho	od: S 5035
QC Batch:	85075			Date An	alyzed:	2011-	09-29		Analyzed E	By: AG
Prep Batch:	72241			Sample	Preparatic	on: 2011-	09-27		Prepared B	y: AG
						\mathbf{RL}				
Parameter		Flag		Cert		Result	١	Units	Dilution	\mathbf{RL}
GRO				1		28.2	m	g/Kg	1	2.00
								Spike	Percent	Recovery
Surrogate			Flag	Cert	\mathbf{Result}	Units	Dilutio	n Amount	Recovery	Limits
Trifluorotolue	ene (TFT)				1.88	mg/Kg	1	2.00	94	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				2.20	mg/Kg	1	2.00	110	22.4 - 149

Sample: 278069 - CS #7 North Side Wall 3'

4-Bromofluor	obenzene (4-BFB)			2.06	mg/Kg	1	2.00	103	70.6	5 - 179
Trifluorotolue	me (TFT)			2.11	mg/Kg	1	2.00	106	82.8	- 143.1
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Li	mits
							Spike	Percent	Rec	covery
Xylene		Qs,U	1		< 0.0200	mg/	′Kg	1		0.0200
Ethylbenzene		Qs,U	1		< 0.0200	mg/	′Kg	1		0.0200
Toluene		U	1		< 0.0200	mg/	′Kg	1		0.0200
Benzene		υ	1		< 0.0200	mg/	′Kg	1		0.0200
Parameter		Flag	Cert		Result	U	nits	Dilution		RL
					RI.					
Prep Batch:	72241		Sample F	reparatio	n: 2011-0	9-27		Prepared	By:	AG
QC Batch:	85074		Date Ana	alyzed:	2011-0	9-27		Analyzed	By:	AG
Laboratory: Analysis:	Midland BTEX		Analytica	al Method	: S 8021	В		Prep Met	hod:	S 5035

Sample: 278069 - CS #7 North Side Wall 3'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	85172	Date Analyzed:	2011-09-30	Analyzed By:	AR
Prep Batch:	72274	Sample Preparation:	2011-09-29	Prepared By:	\mathbf{AR}

continued ...

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sample 278069 contin	ued					
Parameter	Flag	Cert	RL Result	Units	Dilution	\mathbf{RL}
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	\mathbf{RL}
Chloride			358	mg/Kg	50	4.00

Sample: 278069 - CS #7 North Side Wall 3'

Laboratory:	Midland									
Analysis:	TPH DRO - NE	W	An	alytical M	ethod:	S 8015	D	Prep M	lethod:	N/A
QC Batch:	85087		Da	te Analyze	ed:	2011-0	9-27	Analyz	ed By:	kg
Prep Batch:	72249		Sai	mple Prep	aration:	2011-0	9-27	Prepar	ed By:	kg
					RL					
Parameter		Flag	Cert		Result		Units	Dilution		\mathbf{RL}
DRO		Qr,Q8,U	1		<50.0		mg/Kg	1		50.0
Surrogate	Flag	Cert	Result	Units	Dilu	tion	Spike Amount	Percent Recovery	Reco Lin	overy
n-Tricosane			76.5	mg/Kg	1	L	100	76	67.5 -	147.1
			and the second			the second s				

Sample: 278069 - CS #7 North Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 85075 72241			Analytic Date An Sample	al Methoc alyzed: Preparatic	l: S 801 2011- on: 2011-	5 D 09-29 09-27		Prep Metho Analyzed E Prepared B	od: S 5035 Sy: AG Sy: AG
						\mathbf{RL}				
Parameter		Flag		Cert		Result	Un	its	Dilution	\mathbf{RL}
GRO				1		3.99	mg/I	Кg	1	2.00
Surrogate			Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)				1.91	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.92	mg/Kg	1	2.00	96	22.4 - 149

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Sample: 278070 - CS #8 West Side Wall 3'

Laboratory:	Midland					
Analysis:	Chloride (Titration)	Analytic	al Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	85172	Date An	alyzed:	2011-09-30	Analyzed By:	AR
Prep Batch:	72274	Sample 1	Preparation:	2011-09-29	Prepared By:	AR
			\mathbf{RL}			
Parameter	Flag	Cert	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride	U		<200	mg/Kg	50	4.00

Sample: 278070 - CS #8 West Side Wall 3'

Laboratory:	Midland								
Analysis:	TPH DRO - N	EW	An	alytical M	ethod: S 80	15 D	Prep M	lethod:	N/A
QC Batch:	85087		Da	te Analyze	ed: 201	1-09-27	Analyz	kg	
Prep Batch:	72249		Sample Preparation: 201			1-09-27	Prepar	ed By:	kg
					\mathbf{RL}				
Parameter		Flag	Cert	i	Result	Units	Dilution		\mathbf{RL}
DRO		Qr,Qs,U	1		<50.0	mg/Kg	1		50.0
						Spike	Percent	Reco	very
Surrogate	\mathbf{F} lag	\mathbf{Cert}	Result	Units	Dilution	Amount	Recovery	Lin	nits
n-Tricosane			80.2	mg/Kg	1	100	80	67.5 -	147.1

Sample: 278070 - CS #8 West Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 85075 72241			Analytic Date An Sample	al Metho alyzed: Preparatio	d: S 80 2011 on: 2011	15 D -09-29 -09-27		Prep Metho Analyzed B Prepared B	od: S 5035 y: AG y: AG
						RL				
Parameter		Flag		Cert		Result	1	Units	Dilution	\mathbf{RL}
GRO				1		$<\!2.00$	mį	g/Kg	1	2.00
Surrogate			Flag	Cert	Result	Units	Dilutio	Spike n Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)				1.92	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.92	mg/Kg	1	2.00	96	22.4 - 149

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Sample: 278071 - CS #9 Bottom Hole 6'

Laboratory: Midland								
Analysis: BTEX		Analytica	al Method	: S 802	IB		Prep Met	thod: S 5035
QC Batch: 85074		Date Ana	alyzed:	2011-()9-27		Analyzed	By: AG
Prep Batch: 72241		Sample F	Preparation	n: 2011-()9-27		Prepared	By: AG
				\mathbf{RL}				
Parameter	Flag	Cert		\mathbf{Result}	U	nits	Dilution	RL
Benzene	υ	1	<	< 0.0200	mg	′Kg	1	0.0200
Toluene	U	1	•	< 0.0200	mg	′Kg	1	0.0200
Ethylbenzene	Qs,U	1	•	< 0.0200	mg	′Kg	1	0.0200
Xylene	Qs,U	1		< 0.0200	mg/	′Kg	1	0.0200
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			2.08	mg/Kg	1	2.00	104	82.8 - 143.1
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70.6 - 179

Sample: 278071 - CS #9 Bottom Hole 6'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 85172 72274	Analytic Date An Sample I	al Method: alyzed: Preparation:	SM 4500-Cl B 2011-09-30 2011-09-29	Prep Method: Analyzed By: Prepared By:	N/A AR AR
			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	\mathbf{RL}
Chloride			201	mg/Kg	50	4.00

Sample: 278071 - CS #9 Bottom Hole 6'

n-Tricosane	, <u>, , , , , , , , , , , , , , , ,</u>		78.9	mg/Kg	1	100	79	67.5 -	147.1
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Reco Lim	very its
DRO		Qr,Qs,U	1		<50.0	mg/Kg	1		50.0
Parameter		Flag	Cert		RL Result	Units	Dilution		RL
Analysis: QC Batch: Prep Batch:	lysis: TPH DRO - NEW Batch: 85087 9 Batch: 72249			alytical M ate Analyze mple Prepa	ethod: S 80 ed: 2011 aration: 2011	15 D -09-27 -09-27	Prep Method: Analyzed By: Prepared By:		N/A kg kg

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Sample: 278071 - CS #9 Bottom Hole 6'

Laboratory:	Midland									
Analysis:	TPH GRO			Analytic	al Method	l: S 802	15 D		Prep Metho	d: S 5035
QC Batch:	85075			Date An	alyzed:	2011	-09-29		Analyzed B	y: AG
Prep Batch:	72241			Sample	Preparatio	on: 2011-	-09-27		Prepared B	y: AG
						\mathbf{RL}				
Parameter		Flag		Cert		Result	τ	Jnits	Dilution	\mathbf{RL}
GRO				1		<2.00	mį	g/Kg	1	2.00
								Spike	Percent	Recovery
Surrogate			Flag	Cert	Result	Units	Dilution	n Amount	Recovery	Limits
Trifluorotolue	ene (TFT)				1.91	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.89	mg/Kg	1	2.00	94	22.4 - 149

Sample: 278072 - CS #10 East Side Wall 3'

Laboratory:	Midland					
Analysis:	Chloride (Titration)	Analytic	al Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	85172	Date An	alyzed:	2011-09-30	Analyzed By:	AR
Prep Batch:	72274	Sample I	Preparation:	2011-09-29	Prepared By:	AR
			\mathbf{RL}			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	υ	••••• ••• ••• ••• ••• ••• •••	<200	mg/Kg	50	4.00

Sample: 278072 - CS #10 East Side Wall 3'

n-Tricosane			77.0	mg/Kg	1	100	77	67.5 - 147.1
Surrogate	Flag	Cert	Result	Units	Dilutior	Spike Amount	Percent Recovery	Recovery Limits
DRO		Qr,Qs,U	1		<50.0	mg/Kg	1	50.0
Parameter		Flag	Cert	-	RL Result	Units	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - NE 85087 72249	W	Analytical Method: Date Analyzed: Sample Preparation:			8015 D 11-09-27 11-09-27	Prep M Analyz Prepar	Method: N/A zed By: kg red By: kg

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Sample: 278072 - CS #10 East Side Wall 3'

Laboratory:	Midland									
Analysis:	TPH GRO			Analytic	al Method	l: S 801	5 D		Prep Metho	od: S 5035
QC Batch:	85075			Date An	alyzed:	2011-	09-29		Analyzed B	y: AG
Prep Batch:	72241			Sample	Preparatio	on: 2011-	09-27		Prepared B	y: AG
						\mathbf{RL}				
Parameter		Flag		Cert		Result	U	nits	Dilution	\mathbf{RL}
GRO				1		<2.00	mg	/Kg	1	2.00
								Spike	Percent	Recovery
Surrogate			Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)				1.93	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.86	mg/Kg	1	2.00	93	22.4 - 149

Sample: 278073 - CS #11 South Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 85172 72274	Analytic Date Ar Sample	cal Method: nalyzed: Preparation:	SM 4500-Cl B 2011-09-30 2011-09-29	Prep Method: Analyzed By: Prepared By:	N/A AR AR
TD .		a <i>i</i>	RL	TT •.		DI
Parameter	Flag	Cert	Result	Units	Dilution	κ L
Chloride	U		<200	mg/Kg	50	4.00

Sample: 278073 - CS #11 South Side Wall 3'

n-Tricosane			79.7	mg/Kg	1	100	80	67.5 - 147.1
Surrogate	Flag	Cert	Result	Units	Dilutio	Spike on Amount	Percent Recovery	Recovery Limits
DRO		Qr,Qs,U	1		<50.0	mg/Kg	1	50.0
Parameter		Flag	Cert		RL Result	Units	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	boratory: Midland nalysis: TPH DRO - NEW C Batch: 85087 rep Batch: 72249			alytical M te Analyze nple Prepa	ethod: S ed: 20 aration: 20	8015 D 011-09-27 011-09-27	Prep M Analy: Prepar	Method: N/A zed By: kg red By: kg

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Sample: 278073 - CS #11 South Side Wall 3'

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 85075 72241			Analytic Date Ar Sample	cal Methoc nalyzed: Preparatic	l: S 801 2011- on: 2011-	l5 D -09-29 -09-27		Prep Metho Analyzed E Prepared B	od: S 5035 By: AG By: AG
						\mathbf{RL}				
Parameter		Flag		Cert		Result		Units	Dilution	\mathbf{RL}
GRO				1		<2.00	m	g/Kg	1	2.00
Surrogate			Flag	Cert	Result	Units	Dilutic	Spike on Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)				1.92	mg/Kg	1	2.00	96	30 - 134.6
4-Bromofluor	obenzene (4-BFB)				1.90	mg/Kg	1	2.00	95	22.4 - 149

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Method Blanks

Flag	Date A QC Pr	Analyzed: eparation:	2011-09- 2011-09-	27 27		Analyz Prepar	ed By: AG ed By: AG
Flag							
Flag				MDL			
		Cert		Result		Units	\mathbf{RL}
		1		< 0.0118		mg/Kg	0.02
		1		< 0.00600		mg/Kg	0.02
		1		< 0.00850		mg/Kg	0.02
		I		< 0.00613		mg/Kg	0.02
					Spike	Percent	Recovery
Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
		2.02	mg/Kg	1	2.00	101	65.9 - 111.8
В)		1.83	mg/Kg	1	2.00	92	48.4 - 123.1
1 Batabe 85075							
	Flag B) 2 Batch: 85075	Flag Cert B) 2 Batch: 85075	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flag Cert Result Units Flag Cert Result Units 2.02 mg/Kg B) 1.83 mg/Kg	1 <0.0118	1 <0.0118	1 <0.0118

QC Batch: 85075 Prep Batch: 72241			Date A QC Pre	nalyzed: eparation:	2011-09-29 2011-09-27) ,		d By: AG d By: AG	
						MDL			
Parameter		Flag		Cert		\mathbf{Result}		Units	RL
GRO	· · ·			1		0.949		mg/Kg	2
							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			1.86	mg/Kg	1	2.00	93	67.6 - 150
4-Bromofluor	obenzene (4-BFB)			1.73	mg/Kg	1	2.00	86	52.4 - 130

Method Blank (1)		QC Batch: 85087				
QC Batch:	85087		Date Analyzed:	2011-09-27	Analyzed By:	kg
Prep Batch:	72249		QC Preparation:	2011-09-27	Prepared By:	kg

Report Date: Octob 114-6401000	per 4, 2011		WK	Work Ord LC/So. Cal	Page Number: 22 of 32 Eddy Co., NM			
Paramatar		Flag	r	Cert		MDL Besult	Units	B
DRO		1.102	<u> </u>	1		<14.5	mg/Kg	5
<u> </u>	TO	Flag Cert		TI:4-	Dilution	Spike	Percent	Recovery
n-Tricosane	Flag	Cert	85.3	mg/Kg	1	100	85	52.7 - 133
Method Blank (1) QCI	Batch: 8517	1 Date	Analyzed	2011-09-29		Analy	rzed Bv∙ AF
Prep Batch: 72245			QC P	reparation:	2011-09-27		Prepa	red By: AF
Parameter Chloride		Flag	5	Cert		MDL Result	Units mg/Kg	R
Method Blank (1) QC	Batch: 85172	2					
QC Batch: 85172 Prep Batch: 72274			Date . QC P	Analyzed: reparation:	2011-09-30 2011-09-29		Analy Prepa	zed By: AF red By: AF
Parameter		Flag	g	Cert		MDL Result	Units	R

<3.85

mg/Kg

4

Chloride

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Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch:	85074	Date Analyzed:	2011-09-27	Analyzed By:	\mathbf{AG}
Prep Batch:	72241	QC Preparation:	2011-09-27	Prepared By:	AG

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		1	2.01	mg/Kg	1	2.00	< 0.0118	100	77.4 - 121.7
Toluene		1	2.04	mg/Kg	1	2.00	< 0.00600	102	88.6 - 121.6
Ethylbenzene		1	2.05	mg/Kg	1	2.00	< 0.00850	102	74.3 - 117.9
Xylene		1	6.14	mg/Kg	1	6.00	< 0.00613	102	73.4 - 118.8

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

	LCSD					Spike	Matrix		Rec.			
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit	
Benzene		1	1.99	mg/Kg	1	2.00	< 0.0118	100	77.4 - 121.7	1	20	
Toluene		1	1.99	mg/Kg	1	2.00	<0.00600	100	88.6 - 121.6	2	20	
Ethylbenzene		1	1.99	mg/Kg	1	2.00	< 0.00850	100	74.3 - 117.9	3	20	
Xylene		1	5.97	mg/Kg	1	6.00	< 0.00613	100	73.4 - 118.8	3	20	

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.01	2.00	mg/Kg	1	2.00	100	100	65.5 - 116.7
4-Bromofluorobenzene (4-BFB)	1.98	1.98	mg/Kg	1	2.00	99	99	56.2 - 132.1

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	85075 72241		ር ር)ate Analy:)C Prepara	zed: 2011 tion: 2011	L-09-29 L-09-27		Analyzed By: AG Prepared By: AG		
Param		न	С	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO				17.4	mg/Kg	1	20.0	<0.753	87	60.9 - 95.4

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

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control spikes continued			LCSD			Spike	Matr	ix	F	lec.		RPD
Param	\mathbf{F}	С	\mathbf{Result}	Units	Dil.	. Amount	t Resu	lt Rec	. L	imit	RPD	Limit
D	п	a	LCSD	T T * (וית	Spike	Matr	ix V D	F	lec.	DDD	RPD
Param	F	<u> </u>	Result	Units	Dil.	$\frac{1}{20.0}$	$\frac{t}{\sqrt{0.7}}$	$\frac{1t}{52}$ $\frac{1}{00}$. L 60.0	$\frac{1000}{054}$		Limit
	.,	1	17.9		<u>, 1</u>	20.0	<0.7		00.9	- 90.4	J	20
Percent recovery is based on the	e spike	rest	ilt. RPD	is based	on th	e spike and	i spike d	uplicate	result.			
			LC	S LC	CSD			Spike	LCS	LCSI	D	Rec.
Surrogate			Res	ult Re	sult	Units	Dil.	Amount	Rec.	Rec.	.]	Limit
Trifluorotoluene (TFT)			1.8	8 1.	.90	mg/Kg	1	2.00	94	95	61.	9 - 142
4-Bromofluorobenzene (4-BFB)			1.8	<u>34 1.</u>	.86	mg/Kg	1	2.00	92	93	56.	2 - 132
QC Batch: 85087 Prep Batch: 72249	669-1	.)	Dat QC	e Analyz Preparat	ed: tion:	2011-09-27 2011-09-27				Anal Prep	yzed B ared By	y: kg 7: kg
D		F	[LCS	** •.	D.1	Spik	e M	latrix	P	F	lec.
Param		F.	C R	esult	Units	s Dil.	Amou	int R	lesult	Rec.		imit
DRO			1	203	mg/ K	<u>g 1</u>	200		.14.0	01	04.0	- 140.9
Percent recovery is based on the	e spike	resi	ilt. RPD	is based	on th	e spike and	l spike d	uplicate	result.			
			LCSD			Spike	Matri	x	R	ec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Resul	t Rec.	Li	mit	RPD	Limit
DRO		1	207	mg/Kg	1	250	<14.8	5 83	64.5 -	- 146.9	2	20
Percent recovery is based on the	e spike	resi	ılt. RPD	is based	on th	e spike and	l spike d	uplicate	result.			
	LCS	S	LCSE)			Spike	LC	S I	LCSD	F	lec.
Surrogate	Resu	ılt	Result	t Uı	nits	Dil.	Amoun	t Re	c.	Rec.	$\mathbf{L}_{\mathbf{i}}$	mit
n-Tricosane	83.8	8	83.7	mg	/Kg	1	100	84	1	84	65.3	- 135.8
Laboratory Control Spike (1 QC Batch: 85171 Prep Batch: 72245	LCS-1)	Date QC 1	Analyze Preparati	ed: 2 ion: 2	2011-09-29 2011-09-27				Analy Prepa	zed By: red By:	AR AR
*		-	~	LCS			$\mathbf{S}_{\mathbf{I}}$	oike	Matrix	<u>د</u>		Rec.
Param		F	C	Result	Uni	its Dil	. Am	ount	Result	Rec	c	Limit
Chloride				95.9	mg/	Kg 1	1	.00	<3.85	96	i 8	5 - 115

Report Date: October 4, 2011	Work Order: 11092217	Page Number: 25 of 32
114-6401000	WKLC/So. California 14 Fed. #1	Eddy Co., NM

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			104	mg/Kg	1	100	<3.85	104	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:	85172		D	ate Analyz	ed: 2011-	09-30			Analyzed	By: AR
Prep Batch:	72274	4 QC Preparation: 2011-09-29								
				LCS			Spike	Matrix		Rec.
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride				93.8	mg/Kg	1	100	<3.85	94	85 - 115
n		4 h +	.14 DT			1		1/		

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			105	mg/Kg	1	100	<3.85	105	85 - 115	11	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: 278071

QC Batch:	85074	Date Analyzed:	2011-09-27	Analyzed By:	AG
Prep Batch:	72241	QC Preparation:	2011-09-27	Prepared By:	$\mathbf{A}\mathbf{G}$

			MS			Spike	Matrix		Rec.	
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	
Benzene		1	2.45	mg/Kg	1	2.00	< 0.0118	122	69.4 - 123.6	
Toluene		1	2.57	mg/Kg	1	2.00	< 0.00600	128	75.4 - 134.3	
Ethylbenzene	Qs	1	2.69	mg/Kg	1	2.00	< 0.00850	134	58.8 - 133.7	
Xylene	Qs	1	8.08	mg/Kg	1	6.00	< 0.00613	135	57 - 134.2	

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	\mathbf{Result}	Units	Dil.	Amount	\mathbf{Result}	Rec.	Limit	RPD	Limit
Benzene		1	2.20	mg/Kg	1	2.00	< 0.0118	110	69.4 - 123.6	11	20
Toluene		1	2.33	mg/Kg	1	2.00	< 0.00600	116	75.4 - 134.3	10	20
Ethylbenzene		1	2.45	mg/Kg	1	2.00	< 0.00850	122	58.8 - 133.7	9	20
Xylene		1	7.35	mg/Kg	1	6.00	< 0.00613	122	57 - 134.2	10	20

Report Date: October 4, 2011	Work Order: 11092217	Page Number: 26 of 32
114-6401000	WKLC/So. California 14 Fed. $#1$	Eddy Co., NM

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.08	2.07	mg/Kg	1	2	104	104	79.4 - 141.1
4-Bromofluorobenzene (4-BFB)	2.06	2.09	mg/Kg	1	2	103	104	71 - 167

Matrix Spike (MS-1) Spiked Sample: 278077

QC Batch:	85075	Date Analyzed:	2011-09-29	Analyzed By:	AG
Prep Batch:	72241	QC Preparation:	2011-09-27	Prepared By:	\mathbf{AG}

			MS			Spike	Matrix		Rec.		
Param	\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit		
GRO		1	18.0	mg/Kg	1	20.0	0.9676	85	61.8 - 114		

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

		MSD				Spike	Matrix	Rec.			\mathbf{RPD}	
Param	\mathbf{F}	\mathbf{C}	\mathbf{Result}	Units	Dil.	Amount	\mathbf{Result}	Rec.	Limit	RPD	Limit	
GRO		1	18.4	mg/Kg	1	20.0	0.9676	92	61.8 - 114	2	20	

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.87	1.86	mg/Kg	1	2	94	93	29.4 - 161.7
4-Bromofluorobenzene (4-BFB)	1.98	1.99	mg/Kg	1	2	99	100	37.3 - 162

Matrix Spike (MS-1) Spiked Sample: 278103

QC Batch:	85087	Date Analyzed:	2011-09-27	Analyzed By:	kg
Prep Batch:	72249	QC Preparation:	2011-09-27	Prepared By:	kg

Param	F		N C Re	AS sult	Units	Dil.	Spike Amount	Ma Re	atrix sult Rec.	F L	lec. imit
DRO			1 4	64	mg/Kg	1	250	2	80 74	38.8	- 153.3
Percent recovery is based on t	the spike i	esul	t. RPD	is based	on the	spike and	spike dup	licate r	esult.		
			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	Qr,Qs	1	835	mg/K	τ <u>τ</u>	250	280	222	38.8 - 153.3	57	20

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

Report Date: October 4, 114-6401000	2011	111 Work Order: 11092217 WKLC/So. California 14 Fed. #1												
	MS	MSD			Spike	MS	MSD	1	Rec.					
Surrogate	\mathbf{Result}	Result	Units	Dil.	Amount	Rec.	Rec.	I	imit					
n-Tricosane	97.0	112	mg/Kg	1	100	97	112	54.6	- 149.8					
Matrix Spike (MS-1)	Spiked Sample	e: 278068												
QC Batch: 85171 Prep Batch: 72245		Date A QC Pre	nalyzed: paration:	2011-09-29 2011-09-27			Anal Prep	yzed By ared By	r: AR : AR					
		MS	\$		Spike	Matri	x]	Rec.					
Param	\mathbf{F}	C Resu	ılt Unit	s Dil.	Amount	Resul	t Rec.	L	imit					
Chloride		1020)0 mg/K	Kg 100	10000	<385	102	79.4	- 120.6					
Param Chloride Percent recovery is based	F C	MSD Result U 10700 m ult. RPD is	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Spike Amount 10000 ne spike and	Matrix Result <385 spike dup	Rec. 107 79 licate resu	Rec. Limit 0.4 - 120.6 lt.	RPD 5	RPD Limit 20					
Matrix Spike (MS-1)	· Spiked Sample	e: 278078												
QC Batch: 85172 Prep Batch: 72274		Date A QC Pre	nalyzed: paration:	2011-09-30 2011-09-29			Anal Prepa	yzed By ared By	: AR : AR					
	5	MS	} 1. TT 1.	D'I	Spike	Matri	x	I	Rec.					
Param	<u> </u>	C Resu	ilt Unit	$\frac{s Dil.}{100}$	Amount	Resul	t Rec.	L	1mit					
Chloride		1040	10 mg/K	rg 100	10000	453	99	79.4	- 120.6					
Percent recovery is based	on the spike res	ult. RPD is	based on th	ne spike and	spike dup	licate resu	lt.							
Danam	T C	MSD Regult J	Inita Dil	Spike	Matrix Result	Rec	Rec.	חסס	RPD Limit					
r ai aill	гС	nesuit (unus DII.	Amount	nesun	nec.	111111	nrD	LIIIII					

79.4 - 120.6

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

mg/Kg

Chloride

Report Date: October 4, 2011 114-6401000

Calibration Standards

Standard (CCV-1)

QC Batch: 8	35074			Date Ana	alyzed: 201	1-09-27		Analy	zed By: AG
					CCVs	CCVs	CCVs CCVs Percent		
					True	Found	Percent	Recovery	Date
Param		Flag	\mathbf{Cert}	\mathbf{Units}	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene			1	mg/Kg	0.100	0.0983	98	80 - 120	2011-09-27
Toluene			1	mg/Kg	0.100	0.0998	100	80 - 120	2011-09-27
Ethylbenzene			1	mg/Kg	0.100	0.101	101	80 - 120	2011-09-27
Xylene			1	mg/Kg	0.300	0.304	101	80 - 120	2011-09-27

Standard (CCV-2)

QC Batch:	85074			Date Ana	alyzed: 201	1-09-27		Analy	zed By: AG
					\mathbf{CCVs}	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	\mathbf{Units}	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene			1	mg/Kg	0.100	0.103	103	80 - 120	2011-09-27
Toluene			1	mg/Kg	0.100	0.107	107	80 - 120	2011-09-27
Ethylbenzene	;		1	mg/Kg	0.100	0.106	106	80 - 120	2011-09-27
Xylene			1	mg/Kg	0.300	0.319	106	80 - 120	2011-09-27

Standard (CCV-1)

QC Batch:	85075		Date	Analyzed:	2011-09-29		Analy	zed By: AG
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	g Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		1	mg/Kg	1.00	1.09	109	80 - 120	2011-09-29

Standard (CCV-2)

QC Batch: 85075

Date Analyzed: 2011-09-29

Analyzed By: AG

Report Date: 114-6401000	October 4, 20	011	WK	Work Ore LC/So. Ca	der: 11092217 Ilifornia 14 Fed	. #1	Page Nu	mber: 29 of 32 Eddy Co., NM
Param GRO	Flag	Cert	Units mg/Kg	CCVs True Conc. 1.00	CCVs Found Conc. 1.04	CCVs Percent Recovery 104	Percent Recovery Limits 80 - 120	Date Analyzed 2011-09-29
Standard (C	CV-3)							
QC Batch: 8	5075		Date	Analyzed:	2011-09-29		Analy	zed By: AG
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Standard (C	CV-1)							
QC Batch: 8	5087		Date	Analyzed:	2011-09-27		Anal	yzed By: kg
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	202	81	80 - 120	2011-09-27
Standard (C	CV-2)							
QC Batch: 8	5087		Date	Analyzed:	2011-09-27		Anal	yzed By: kg
		~		CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param DRO	Flag	Cert	Units mg/Kg	Conc. 250	Conc. 208	Recovery 83	Limits 80 - 120	Analyzed 2011-09-27
		1		200	200		00 - 120	DOI1-00-21

Standard (CCV-3)

QC Batch: 85087

Date Analyzed: 2011-09-27

Analyzed By: kg

114-0401000	October 4, 20	11	WKI	Work Ore LC/So. Ca	l. #1	Page Number: 30 of 32 Eddy Co., NM							
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed					
DRO		1	mg/Kg	250	206	82	80 - 120	2011-09-27					
Standard (IC	V-1)												
QC Batch: 85	5171		Date A	Analyzed:	2011-09-29		Analy	zed By: AR					
		G .	TT 1/	ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date					
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed					
Standard (CO QC Batch: 85	C V-1) 5171		Date A	Analyzed:	2011-09-29		Analy	zed By: AR					
Standard (CO QC Batch: 85	C V-1) 5171		Date A	Analyzed: CCVs True	2011-09-29 CCVs Found	CCVs Porcont	Analy Percent Poccurry	zed By: AR					
Standard (C) QC Batch: 85 Param	CV-1) 5171 Flag	Cert	Date A Units	Analyzed: CCVs True Conc.	2011-09-29 CCVs Found Conc.	CCVs Percent Recovery	Analy Percent Recovery Limits	zed By: AR Date Analyzed					
Standard (C) QC Batch: 85 Param Chloride	CV-1) 5171 Flag	Cert	Date A Units mg/Kg	Analyzed: CCVs True Conc. 100	2011-09-29 CCVs Found Conc. 97.8	CCVs Percent Recovery 98	Analy Percent Recovery Limits 85 - 115	zed By: AR Date <u>Analyzed</u> 2011-09-29					
Standard (CO QC Batch: 85 Param Chloride Standard (IC	CV-1) 5171 Flag	Cert	Date A Units mg/Kg	Analyzed: CCVs True Conc. 100	2011-09-29 CCVs Found Conc. 97.8	CCVs Percent Recovery 98	Analy Percent Recovery Limits 85 - 115	zed By: AR Date <u>Analyzed</u> 2011-09-29					
Standard (CC QC Batch: 85 Param Chloride Standard (IC QC Batch: 85	CV-1) 5171 Flag V-1) 5172	Cert	Date A Units mg/Kg Date A	Analyzed: CCVs True Conc. 100	2011-09-29 CCVs Found Conc. 97.8 2011-09-30	CCVs Percent Recovery 98	Analy Percent Recovery Limits 85 - 115 Analy	zed By: AR Date <u>Analyzed</u> 2011-09-29 zed By: AR					
Standard (CO QC Batch: 85 Param Chloride Standard (IC QC Batch: 85	CV-1) 5171 Flag 2V-1) 5172	Cert	Date A	Analyzed: CCVs True Conc. 100 Analyzed: ICVs True	2011-09-29 CCVs Found Conc. 97.8 2011-09-30 ICVs Found	CCVs Percent Recovery 98 ICVs Percent	Analy Percent Recovery Limits 85 - 115 Analy Percent Becovery	zed By: AR Date <u>Analyzed</u> 2011-09-29 zed By: AR Date					
Standard (CO QC Batch: 85 Param Chloride Standard (IC QC Batch: 85 Param	CV-1) 6171 Flag EV-1) 6172 Flag	Cert	Date A Units mg/Kg Date A Units	Analyzed: CCVs True Conc. 100 Analyzed: ICVs True Conc.	2011-09-29 CCVs Found Conc. 97.8 2011-09-30 ICVs Found Conc.	CCVs Percent Recovery 98 ICVs Percent Recovery	Analy Percent Recovery Limits 85 - 115 Analy Percent Recovery Limits	zed By: AR Date <u>Analyzed</u> 2011-09-29 zed By: AR Date Analyzed					

Standard (CCV-1)

QC Batch: 85172

Date Analyzed: 2011-09-30

Analyzed By: AR

Report Date: C 114-6401000	october 4, 201	1	WKI	Work Order: 11092217 Page Number: 31 of WKLC/So. California 14 Fed. #1 CCVs CCVs Eddy Co., N CCVs CCVs Percent True Found Percent Recovery Jnits Conc. Conc. Recovery Limits Analyze/ g/Kg 100 99.7 100 85 - 115 2011-09-5	mber: 31 of 32 Eddy Co., NM			
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride	0		mg/Kg	100	99.7	100	85 - 115	2011-09-30

Page Number: 32 of 32 Eddy Co., NM

Appendix

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	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.

WO # 11092217	\frown
Analysis Request of Chain of Custody Record	PAGE: OF:
	ANALYSIS REQUEST
TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	TDS TDS TDS
CLIENT NAME: W/K (AND) COMPANY SITE MANAGER: IKE TAVAPEL W METHOD	L TX100 L TX100 L TX100 L TX100 L L
PROJECT NO.: 1/4-6401000 PROJECT NAME: 1/4-6401000 LAB I.D. NUMBER DATE TIME XI H WOOD BUILDING SAMPLE DENTIFICATION SOUTHER DATE TIME WWW WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	BTEX 8021B TPH 8015 MOD. PAH 8270 PAH 8270 PAH 8270 PAH 8270 PAH 8270 As TCLP Metals Ag As TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles Semi Vol 8240/826 GC.MS Vol. 8240/826 GC.MS 8080/608 PESt 8080/608 Pest 8080/608 Pest 8080/608 Pest 8080/608 PLM (Asbest 03) Major Anions/Cation
278063 9/20/11 S X CS #1 SOUTH SIDE WALL 3' 11 X	
014 9/20/11 S X C5#2 WEST SIDE WALL 3' 11 X	
065 9/20/11 S X CS#3 BOTTOM HOLE 6' 11 X	
OND 9/20/11 S X CS#4 EAST SIDE WALL 3' 1 X	
017 9/20/11 S X CS#5 SOUTH SIDE WALL 3' 1 X	9
068 g/20/11 S X CS+6 BOTTOM HOLE 6' 1 X	
009 9/20/11 S X CS#7 NOATH SIDE WALL 3'11 X	
CTO 9/20/11 S X CS#8 WEST SIDE WALL 3' 1 X	
071 g/20/11 S X CS#9 BOTTOM HOLE 6'11 X	XX X X X X X X X X X X X X X X X X X X
OTO 9/20/11 S X CS#10, EAST SIDE WALL 3' X	9
RELINQUISHED BY: (Signature) Date: 9/21/11 RECEIVED BY: (Signature) Date: 1/22 Time: 1/421 Time: 1/20	Image: SampleD BY: (Print & Initial) Date:
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RELINQUISHED BY: (Signature) Date:	HAND DELIVERED UPS OTHER: TETRA TECH CONTACT PERSON: Results by:
RECEIVING LABORATORY:	- ING TANGE Authorized:
CONTACT:	TPH-

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

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