



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1603949820

1RP - 4169

FASKEN OIL & RANCH LTD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	AMERICO ENERGY RESOURCES	Contact	STEVE SMITH
Address	10940 OLD KATY RD. HOUSTON, TX 77043	Telephone No.	441-0926
Facility Name	LENTEN SAND #1	Facility Type	SALT WATER DISPOSAL LINE
Surface Owner	JACK HAYELL	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	11	155	395	UNK	UNK	UNK	UNK	LEA

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	SALT WATER	Volume of Release	10,000	Volume Recovered	0
Source of Release	WATER LINE	Date and Hour of Occurrence	Yes	Date and Hour of Discovery	YES 11 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	DARRIN WINK		
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			


If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken. 10" RED THERMAN FIBERGLASS PIPE, SPICY HOLE AND TAPPING. SHUT DOWN LINE, ESTIMATION OF DAMAGE, REMOVED BURST AREA OF PIPE AND REPLACED BY NEW.

Describe Area Affected and Cleanup Action Taken. APPROXIMATELY 500' X 1000' PLASTIC GRASS. CONTACTED LAND OWNER, HE ADVISED HE WANTED ENTIRE AREA ESCROWED AND NEW DIRT PUT IN THE GULLY.

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 poses a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:	
Printed Name: STEPHEN B. SMITH	Approval Date:	Expiration Date:
Title: CONTRACT SUPERVISOR / AREA REP.	Conditions of Approval:	
E-mail Address: SMITHSERV@HOTMAIL.COM	Attached <input type="checkbox"/>	
Date: 8/5/04 Phone: 441-0926		

Attach Additional Sheets If Necessary

**Fasken Oil and Ranch, Ltd.
Denton SWD #1 Mainline Monitor Well
Unit J, Section 11, Township 15S, Range 37E
Lea County, New Mexico**

Closure Report

July 10, 2012



Prepared for:

**Fasken Oil and Ranch, Ltd.
303 West Wall Street, Suite 1800
Midland, Texas 79701-5116**

By:

***Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510***

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I. Company Contacts

Representative	Company	Telephone	E-mail
Jimmy Carlile	Fasken	432-818-0210	jimmyc@forl.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety & Environmental Solutions, Inc. was retained by Fasken Oil & Ranch, Ltd. to perform a site assessment at the Denton #1 SWD Mainline. The site is located in Unit Letter J, Section 11, Township; 15 South, Range 37 East.

On July 25, 2004 the Denton # 1 SWD Mainline, which is a 10" red thread fiberglass pipe, breached and released approximately 10,000 barrels of salt water. The line was shut down and excavated with a backhoe. The damaged section of the line was removed and replaced with new.

Contaminant and Size of Area

The suspected contaminant is salt water. Approximately 10,000 barrels of salt water were released. The release covered approximately 136,317 square feet. According to Permian Production Chemical, an analysis of the produced water, which flows through this line, indicated a chloride concentration of 53,053 ppm.

Vertical and Horizontal Extent of Contamination

As reported in the Delineation report dated September 28, 2004, SESI installed a total of six boreholes in the area. With the exception of BH-1, in which auger refusal was encountered at a depth of 30 ft., all other boreholes indicated the vertical extent of contamination to be between 20 and 25 ft. in some areas.

On October 25, 2004, Safety & Environmental Solutions, Inc. (SESI) engaged Eco Drilling of Midland, Texas to install a monitor well. The well was installed in the same vicinity where the highest levels of contamination took place (BH-2).

The monitor well was drilled to a depth of 65 feet. Composite samples were retrieved every 5 feet and a background soil sample was also retrieved. The samples were properly packaged and transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for Chlorides (EPA Method 4500-Cl⁻B). Installation of the monitor well indicated the contamination has not reached the groundwater (See Figure 3 Log of Boring).

III. Groundwater

On October 29, 2004 SESI developed the monitor well and found the depth of water to be 59.10 feet bgs.

IV. Work Performed

In order to monitor the extent of contamination in monitor well-1, samples have been obtained from late 2004 until 2012. The samples were collected and transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico and analyzed for Chloride (SM4500 Cl⁻B), Total Dissolved Solids (TDS 160.1) and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) (EPA Method 8260B) with the exception of the years 2005-2007 the samples were not tested for BTEX.

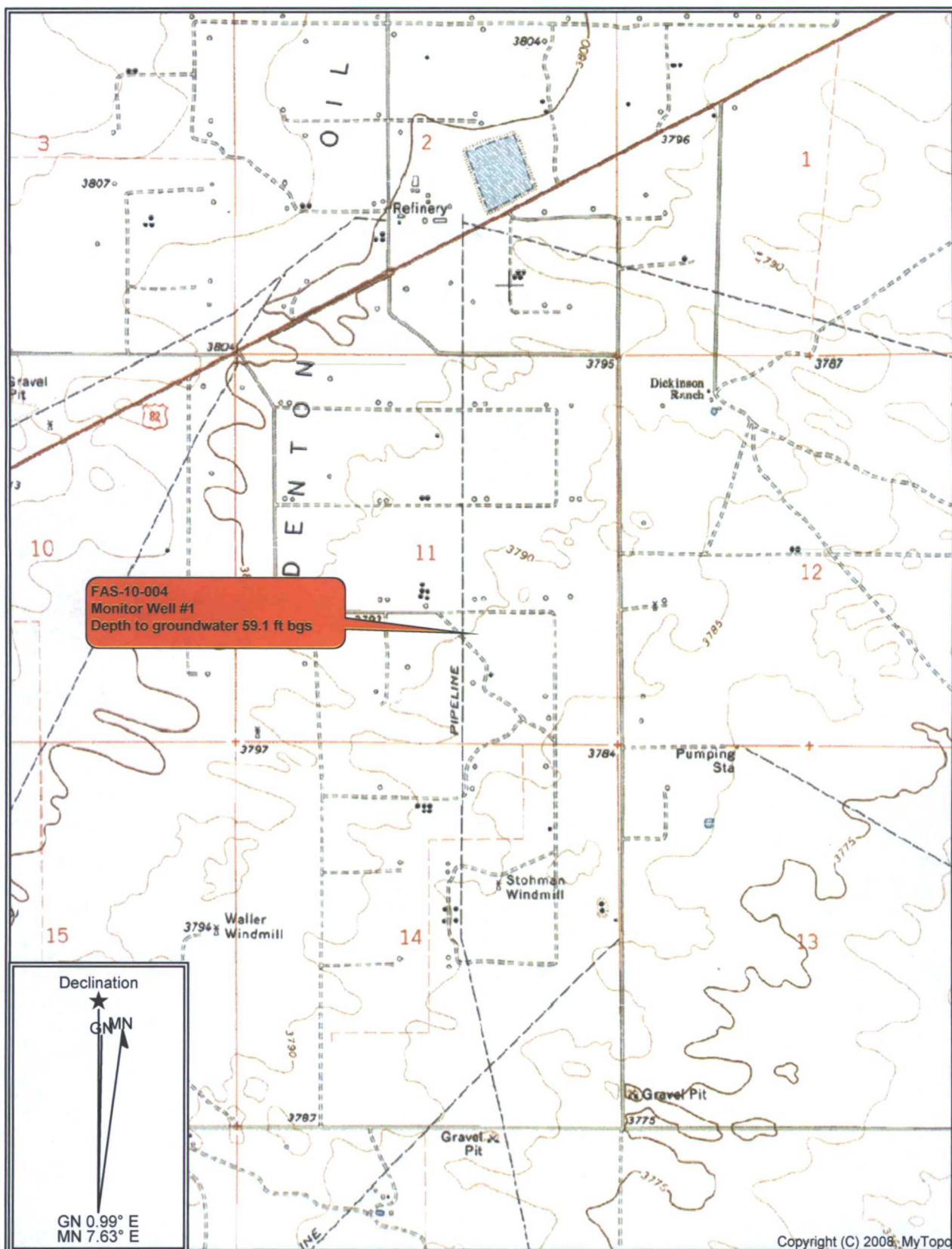
Monitoring Well	Sample Date	Chloride (mg/L)	Total Dissolved Solids (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
MW-1	11/04/04	52	492	<0.002	<0.002	<0.002	<0.006
	06/23/05	40	585	--	--	--	--
	03/14/06	36	480	--	--	--	--
	07/31/07	38	450	--	--	--	--
	02/02/10	44	509	<0.001	<0.001	<0.001	<0.003
	03/29/10	40	509	<0.001	<0.001	<0.001	<0.003
	07/09/10	41	580	<0.0010	<0.0010	<0.0010	<0.0020
	11/08/10	38	820	<0.0010	<0.0010	<0.0010	<0.0020
	01/20/11	41	720	<0.0010	<0.0010	<0.0010	<0.0020
	04/27/11	38	540	<0.0010	<0.0010	<0.0010	<0.0020
	01/16/12	36	522	<0.0010	<0.0010	<0.0010	<0.0020
	03/06/12	36	580	<0.0010	<0.0010	<0.0010	<0.0020
	04/26/12	56	463	<0.0010	<0.0010	<0.0010	<0.0030
NM Groundwater Standard:		250	1,000	0.01	0.75	0.75	0.62

V. Conclusion

The analysis results of all the samples taken from monitor well-1 indicate that chloride contamination has not reached the groundwater. The chloride contamination levels have never exceeded New Mexico groundwater standards. We are requesting no further sampling and respectfully submit permission to plug and abandon monitor well #1.

VI. Figures & Appendices

Figure 1 - Vicinity Map
Figure 2 - Site Plan
Figure 3 - Logs of Boring
Appendix A - Analytical Results
Appendix B - C-141



Map Name: PRAIRIEVIEW,
Scale: 1 inch = 2,000 ft.

Map Center: 033.0288193° N 103.1684535° W
Map Type: Topographic



Google earth

Eye alt 6269 ft

© 2012 Google

Image USDA Farm Service Agency

lat 33.028909 lon -103.168514 elev 3795 ft

571 ft

Imagery Date 7/24/2011



**Safety & Environmental
Solutions, Inc.**

WELL COMPLETION LOG MW-1

(Page 1 of 1)

Monitor Well #1
Americo Denton #1 Mainline
NW/4 SE/4 Section 11, T15S, R37E
Lea County, New Mexico
N33° 01' 43.73", W103° 10' 05.72"

Date/Time Started : 10/25/04, 0830
Date/Time Completed : 10/25/04, 1500
Hole Diameter : 4-3/4" tricone bit
Drilling Method : Air Rotary
Drilling Equipment : Ingersoll Rand

Drilled By : Eco Drilling
Sampling Method : Cuttings
Logged By : David Boyer, PG

Depth in Feet	Sample Method	USCS	GRAPHIC	Water Levels	Sample Method:	DESCRIPTION	Well: MW-1 Elev.: ~3793	Well Construction Information
				▼ During Drilling ▽ After Completion	SS Split Spoon (18" or 24") CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery			
0	CT	TS/CA				0-5 ft. Clayey LOAM and CALICHE, loam dark brown, caliche very light brown,		COMPLETION DATA Hole Depth (with bit) : 67 ft. Below LS TD Inside casing : 71.62(?) Below TOC Top casing : 2.95 ft. above ground CASING, SCREEN & CAP Material, joints : PVC, threaded Diameter : 2 in. ID Manufacturer : Monoflex Screen type : Slotted Screen length : 15 ft. Screen opening : 0.010 slot Srn. placement : 54-69 ft. BLS Bottom Cap : 0.2 ft PVC Protector Casing : Above-ground steel Lock Key # : 2001 SEALS & SAND PACK Cement seal type : 3 bags Quikcrete Cem't placement : 0 - 3 ft. BLS Annular seal type : Bentonite 3/8" chips Annular seal volume : 15 bags Seal placement : 3 - 48 ft. BLS Sand pack type : 8/16 Ogleby silica Sand pack volume : 12 bags Sand placement : 48-69 ft. BLS Bottom hole backfill : -- ELEVATIONS. Ground elevation : ~3790 ft. Inner casing, lip : ~3793 Outer casing, top : N/A WELL INSTALLATION: 10/25/04: Drilled to ~67 feet. Saturated about 57 ft. Set pipe/screen to 69 ft. Placed sand (12 bags) to 48 ft. Bentonite (15 bags) to 3 ft. Quikcrete (3 bags) to surface and cement above-ground steel protection box with concrete pad. WELL DEVELOPMENT: Well developed 10/29/04 - Total depth before development 71.62(?) ft. BTOC. DTW 62.10 ft., height of riser, 2.95 ft. Purged 20 gallons water, ~ 2 gallons sand. (no final depth measured, total depth 08/21/05 70.58 ft. BTOC) Water Level Measurements: 10/29/04 - 62.10 ft. BTOC 06/21/05 - 61.28 ft. BTOC 03/20/07 - 62.08 ft. BTOC
5	CT	CL				5-10 ft. SANDY SILTY CLAY, light brown, slightly damp		
10	CT	SP/SS				10-15 ft. SAND and sandstone chips and fragments, light brown, very fine grained sand		
15	CT	SP/SS				15-20 ft. SAND, very light brown, very fine grained, some silt, frequent caliche/sandstone chips/fragments to 3/4"		
20	CT	SP				20-25 ft. SAND, as above, few chips/fragments		
25	CT	SP				25-30 ft. SAND, very light brown, very fine grained, occasional soft sandstone chips/fragments to 1/2 in.		
30	CT	SP				30-35 ft. SAND, reddish-brown, very fine to fine grained, slightly damp, occasional sandstone gravel to 1 in.		
35	CT	SP				35-40 ft. SAND, reddish-brown, very fine to fine grained, slightly damp		
40	CT	SP				40-45 ft. SAND, light brown, very fine grained, occasional sandstone fragments to 1/4 in., slightly damp,		
45	CT	SP				45-50 ft. SAND, light brown, very fine grained, uniform, dry, occasional sandstone fragments/chips to 1/4 in.		
50	CT	SP				50-55 ft. SAND, reddish-brown, very fine grained, uniform, slightly damp		
55	CT	SP				55-60 ft. SAND, brown, very fine grained, wet, occasional small sandstone gravel to 1/4 in.		
60	CT	SP				60-67 ft. SAND, as above, H2O saturated		
65								
70								

Notes:

No hydrocarbon staining or odor noted in drilling the well.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

February 9, 2010

Bob Allen
Safety & Environmental Solutions, Inc.
703 East Clinton, #102
Hobbs, NM 88240

Re: Denton SWD Mainline (FAS-10-004)

Enclosed are the results of analyses for sample number H19197, received by the laboratory on 02/02/10 at 1:45 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

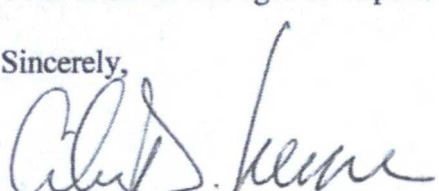
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

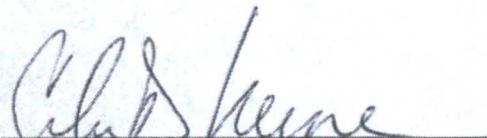
Receiving Date: 02/02/10
Reporting Date: 02/05/10
Project Owner: FASKIN (FAS-10-004)
Project Name: DENTON SWD MAINLINE
Project Location: LEA COUNTY, NM

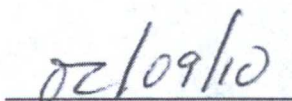
Sampling Date: 02/02/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 0 °C
Sample Received By: CK
Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		02/04/10	02/04/10	02/04/10	02/04/10
H19197-1	MW #1	<0.001	<0.001	<0.001	<0.003
Quality Control		0.043	0.043	0.043	0.128
True Value QC		0.050	0.050	0.050	0.150
% Recovery		86.0	86.0	86.0	85.3
Relative Percent Difference		10	9	1.8	5.3

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Lab Director


Date

H19197 BTEX SESI

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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SAFETY & ENVIRONMENTAL SOLUTIONS
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388


Receiving Date: 02/02/10
Reporting Date: 02/05/10
Project Number: FAS-10-004 (FASKIN)
Project Name: DENTON SWD MAINLINE
Project Location: LEA COUNTY, N.M.

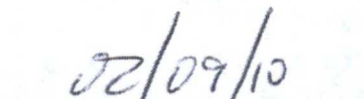
Sampling Date: 02/02/10
Sample Type: WATER
Sample Condition: COOL & INTACT @ 0°C
Sample Received By: CK
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	TDS (mg/L)
Analysis Date:		02/02/10	02/03/10
H19197-1	MW #1	44	509
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		2.0	1.3

METHOD: Standard Methods, EPA	4500-Cl ⁻ B	160.1
-------------------------------	------------------------	-------

Not accredited for Chloride and TDS.


Chemist


Date

H19197 SESI

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101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-247

Page 1 of 1

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 5, 2010

Bob Allen
Safety & Environmental Solutions, Inc.
703 East Clinton, #102
Hobbs, NM 88240

Re: Denton SWD Mainline (FAS-10-004)

Enclosed are the results of analyses for sample number H19568, received by the laboratory on 03/29/10 at 3:05 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



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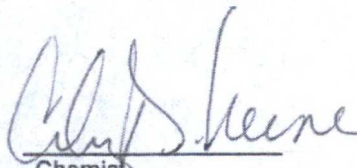
ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

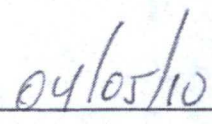
Receiving Date: 03/29/10
Reporting Date: 04/05/10
Project Owner: FASKIN
Project Name: DENTON SWD MAINLINE (FAS-10-004)
Project Location: LEA COUNTY

Sampling Date: 03/29/10
Sample Type: WATER
Sample Condition: INTACT @ 15°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)	TDS (mg/L)
Analysis Date:		03/29/10	03/30/10
H19568-1	MW #1	40	509
Quality Control		500	NR
True Value QC		500	NR
% Recovery		100	NR
Relative Percent Difference		< 0.1	6.2

METHOD: Standard Methods, EPA	4500-Cl ⁻ B	160.1
Not accredited for Chloride and TDS.		


Chemist


Date

H19568 SESI

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ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

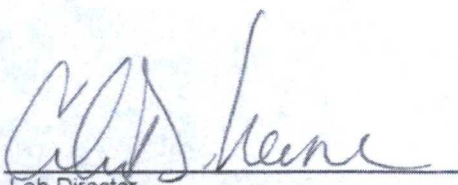
Receiving Date: 03/29/10
Reporting Date: 03/31/10
Project Owner: FASKIN
Project Name: DENTON SWD MAINLINE (FAS-10-004)
Project Location: LEA COUNTY

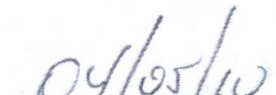
Sampling Date: 03/29/10
Sample Type: WATER
Sample Condition: INTACT @ 15 °C
Sample Received By: JH
Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		03/30/10	03/30/10	03/30/10	03/30/10
H19568-1	MW #1	<0.001	<0.001	<0.001	<0.003
Quality Control		0.045	0.058	0.050	0.150
True Value QC		0.050	0.050	0.050	0.150
% Recovery		90.0	116.0	100.0	100.0
Relative Percent Difference		1.0	6.1	6.7	3.8

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Lab Director


Date

H19568 WB SESI

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES, INC.

21411 Beechwood, Abilene, TX 79603. 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

Company Name:	SEST	
Project Manager:		
Address:	703 E. CLINTON, #103	
City:	HOBBS	State: NM Zip: 88240
Phone #:	(505) 397-0510	
Fax #:	(505) 393-4388	
Project #:	FAS-10-004	Project Owner: Fastin
Project Name:	Denton S&B Mainline	
Project Location:	Lea County	
Company:	SAME	
Affn:		
Address:		
City:		
State:		Zip:
Phone #:		
Fax #:		

FOR LAB USE ONLY		(G) PAB OR (C) COMP.	# CONTAINERS	MATRIX	PRES.	SAMPLING
				WASTEWATER		
				GROUNDWATER		
				SOIL		
				OIL		
				SLUDGE		
				OTHER:		
				ACID:		
				ICE / COOL		
				OTHER:		
					DATE	TIME
					3/29/0	1230

PLEASE NOTE: CardNet's liability and client's exclusive remedy for any claim arising whether based in contract or tort, that is limited to the amount paid by the client for the 30 days past due at the rate of 21% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Received By: (Lab/Staff) Checked By: (Initials)	
Date: 3/29/00 Time: 1:05		Date: 3/29/00 Time: 3:03	
Received By:		Received By:	
Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

+ Cardinal cannot accept verbal changes. Please fax willen@cardinal.net 015-073-7020.



COVER LETTER

Wednesday, July 21, 2010

Dave Boyer
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241

TEL: (575) 390-7067
FAX (575) 393-4388

RE: Fasken Denton SWD Mainline

Order No.: 1007294

Dear Dave Boyer:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 7/9/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
For Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 21-Jul-10

CLIENT: Safety & Environmental Solutions
 Lab Order: 1007294
 Project: Fasken Denton SWD Mainline
 Lab ID: 1007294-01

Client Sample ID: MW #1
 Collection Date: 7/8/2010 8:20:00 AM
 Date Received: 7/9/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	41	10		mg/L	20	7/9/2010 7:29:12 PM
EPA METHOD 8260B: VOLATILES						Analyst: MMS
Benzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Toluene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Ethylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Naphthalene	ND	2.0		µg/L	1	7/15/2010 5:23:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/15/2010 5:23:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/15/2010 5:23:00 AM
Acetone	ND	10		µg/L	1	7/15/2010 5:23:00 AM
Bromobenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Bromoform	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Bromomethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
2-Butanone	ND	10		µg/L	1	7/15/2010 5:23:00 AM
Carbon disulfide	ND	10		µg/L	1	7/15/2010 5:23:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Chlorobenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Chloroethane	ND	2.0		µg/L	1	7/15/2010 5:23:00 AM
Chloroform	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Chloromethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/15/2010 5:23:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Dibromomethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Jul-10

CLIENT: Safety & Environmental Solutions
Lab Order: 1007294
Project: Fasken Denton SWD Mainline
Lab ID: 1007294-01

Client Sample ID: MW #1
Collection Date: 7/8/2010 8:20:00 AM
Date Received: 7/9/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: MMS
2,2-Dichloropropane	ND	2.0		µg/L	1	7/15/2010 5:23:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
2-Hexanone	ND	10		µg/L	1	7/15/2010 5:23:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/15/2010 5:23:00 AM
Methylene Chloride	ND	3.0		µg/L	1	7/15/2010 5:23:00 AM
n-Butylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Styrene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/15/2010 5:23:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/15/2010 5:23:00 AM
Vinyl chloride	ND	1.0		µg/L	1	7/15/2010 5:23:00 AM
Xylenes, Total	ND	1.5		µg/L	1	7/15/2010 5:23:00 AM
Surr: 1,2-Dichloroethane-d4	77.4	54.6-141		%REC	1	7/15/2010 5:23:00 AM
Surr: 4-Bromofluorobenzene	102	60.1-133		%REC	1	7/15/2010 5:23:00 AM
Surr: Dibromofluoromethane	121	78.5-130		%REC	1	7/15/2010 5:23:00 AM
Surr: Toluene-d8	99.8	79.5-126		%REC	1	7/15/2010 5:23:00 AM

SM2540C MOD: TOTAL DISSOLVED SOLIDS

Analyst: KS

Total Dissolved Solids	580	200	mg/L	1	7/15/2010 3:16:00 PM
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Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions
Project: Fasken Denton SWD Mainline

Work Order: 1007294

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sample ID: LCS											
Chloride	4.989	mg/L	0.50	5	0	99.8	90	110			
Batch ID: R39734 Analysis Date: 7/9/2010 2:15:51 PM											
Batch ID: R39734 Analysis Date: 7/9/2010 2:33:15 PM											

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions
 Project: Fasken Denton SWD Mainline

Work Order: 1007294

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 1007294-01a msd			MSD			Batch ID: R39839	Analysis Date: 7/15/2010 6:19:11 AM				
Benzene	17.30	µg/L	1.0	20	0	86.5	75.7	118	1.31	15	
Toluene	22.49	µg/L	1.0	20	0	112	80.1	114	1.39	15	
Chlorobenzene	21.73	µg/L	1.0	20	0	109	81.5	112	1.80	15	
1,1-Dichloroethene	21.32	µg/L	1.0	20	0	107	77.4	132	7.14	17.8	
Trichloroethene (TCE)	17.30	µg/L	1.0	20	0	86.5	61.1	121	2.26	19.8	
Sample ID: 5ml rb			MBLK			Batch ID: R39839	Analysis Date: 7/14/2010 11:02:51 AM				
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions
 Project: Fasken Denton SWD Mainline

Work Order: 1007294

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml rb

MBLK

Batch ID: R39839 Analysis Date: 7/14/2010 11:02:51 AM

2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								

Sample ID: 100ng lcs

LCS

Batch ID: R39839 Analysis Date: 7/14/2010 11:59:15 AM

Benzene	21.14	µg/L	1.0	20	0	106	82.4	116			
Toluene	23.30	µg/L	1.0	20	0	116	89.5	123			
Chlorobenzene	22.32	µg/L	1.0	20	0	112	87.8	120			
1,1-Dichloroethene	25.37	µg/L	1.0	20	0	127	90.3	138			
Trichloroethene (TCE)	20.75	µg/L	1.0	20	0	104	64	129			

Sample ID: 1007294-01a ms

MS

Batch ID: R39839 Analysis Date: 7/15/2010 5:51:07 AM

Benzene	17.07	µg/L	1.0	20	0	85.4	75.7	118			
Toluene	22.80	µg/L	1.0	20	0	114	80.1	114			S
Chlorobenzene	22.13	µg/L	1.0	20	0	111	81.5	112			
1,1-Dichloroethene	19.85	µg/L	1.0	20	0	99.3	77.4	132			
Trichloroethene (TCE)	16.91	µg/L	1.0	20	0	84.6	61.1	121			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions
Project: Fasken Denton SWD Mainline

Work Order: 1007294

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SM2540C MOD: Total Dissolved Solids

Sample ID: MB-22995 MBLK

Batch ID: 22995 Analysis Date: 7/15/2010 3:16:00 PM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS-22995 LCS

Batch ID: 22995 Analysis Date: 7/15/2010 3:16:00 PM

Total Dissolved Solids 1009 mg/L 20.0 1000 0 101 80 120

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **SAFETY ENV SOLUTIONS**

Date Received:

7/9/2010

Work Order Number **1007294**

Received by: **TLS**

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

9.0°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Monday, November 15, 2010

Dave Boyer
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241

TEL: (575) 390-7067
FAX (575) 393-4388

RE: Fasken Denton SWD #1 MW Main Line

Order No.: 1011170

Dear Dave Boyer:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 11/3/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 15-Nov-10

CLIENT: Safety & Environmental Solutions
Lab Order: 1011170
Project: Fasken Denton SWD #1 MW Main Line
Lab ID: 1011170-01

Client Sample ID: MW#1
Collection Date: 11/1/2010 9:30:00 AM
Date Received: 11/3/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	38	10		mg/L	20	11/5/2010 8:42:03 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/5/2010 2:16:40 AM
Toluene	ND	1.0		µg/L	1	11/5/2010 2:16:40 AM
Ethylbenzene	ND	1.0		µg/L	1	11/5/2010 2:16:40 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/5/2010 2:16:40 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/5/2010 2:16:40 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/5/2010 2:16:40 AM
Xylenes, Total	ND	2.0		µg/L	1	11/5/2010 2:16:40 AM
Surr: 1,2-Dichloroethane-d4	100	77.7-113		%REC	1	11/5/2010 2:16:40 AM
Surr: 4-Bromofluorobenzene	110	76.4-106	S	%REC	1	11/5/2010 2:16:40 AM
Surr: Dibromofluoromethane	106	91.6-125		%REC	1	11/5/2010 2:16:40 AM
Surr: Toluene-d8	99.6	92.3-107		%REC	1	11/5/2010 2:16:40 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	820	200		mg/L	1	11/5/2010 11:36:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions
 Project: Fasken Denton SWD #1 MW Main Line

Work Order: 1011170

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sample ID: LCS		LCS									
Chloride	5.122	mg/L	0.50	5	0	102	90	110			
Sample ID: LCS-B		LCS									
Chloride	5.237	mg/L	0.50	5	0	105	90	110			
Sample ID: LCSD		LCSD									
Chloride	5.111	mg/L	0.50	5	0	102	90	110			
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 1011170-01a msd		MSD									
Benzene	19.18	µg/L	1.0	20	0	95.9	73.1	117	1.87	11.3	
Toluene	18.25	µg/L	1.0	20	0	91.3	82.9	109	3.05	11.6	
Sample ID: 5ml-rb		MBLK									
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: b3		MBLK									
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs		LCS									
Benzene	18.72	µg/L	1.0	20	0	93.6	84.6	109			
Toluene	19.75	µg/L	1.0	20	0	98.8	81	114			
Sample ID: 100ng lcs		LCS									
Benzene	19.54	µg/L	1.0	20	0	97.7	84.6	109			
Toluene	18.66	µg/L	1.0	20	0	93.3	81	114			
Sample ID: 1011170-01a ms		MS									
Benzene	19.54	µg/L	1.0	20	0	97.7	73.1	117			
Toluene	17.70	µg/L	1.0	20	0	88.5	82.9	109			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions
Project: Fasken Denton SWD #1 MW Main Line

Work Order: 1011170

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	--------	---------	------	----------	-----------	------	----------	------

Method: SM2540C MOD: Total Dissolved Solids

Sample ID: MB-24376 MBLK

Batch ID: 24376 Analysis Date: 11/5/2010 11:36:00 AM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS-24376 LCS

Batch ID: 24376 Analysis Date: 11/5/2010 11:36:00 AM

Total Dissolved Solids 1028 mg/L 20.0 1000 0 103 80 120

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SAFETY ENV SOLUTIONS

Date Received:

11/3/2010

Work Order Number 1011170

Received by: LCD

Sample ID labels checked by:

Checklist completed by:

Signature

Date

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

1.4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: SCS F

Mailing Address: 703 E Clinton

Hobbs, NM 88240

Phone #: 505-397-0510

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Date

Time

Matrix

Sample Request ID

11/10 0530 H2O MW #1

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Tasken Dental Supp #1 MW

Project #:

Fas-10-004

Project Manager:

David Boyer

Sampler: Esac Kincard

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.40C

Container Type and #

4

Preservative Type

HCl

HEAL No

101170

-1

Date: 11/10

Time: 1230

Relinquished by:

[Signature]

Date: 11/10

Time: 1230

Received by:

[Signature]

Received by: David C. Davis

Date: 11/13/200

Time: 10:45

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	<input checked="" type="checkbox"/>
BTEX + MTBE + TPH (Gas only)	<input type="checkbox"/>
TPH Method 8015B (Gas/Diesel)	<input type="checkbox"/>
TPH (Method 418.1)	<input type="checkbox"/>
EDB (Method 504.1)	<input type="checkbox"/>
8310 (PNA or PAH)	<input type="checkbox"/>
RCRA 8 Metals	<input type="checkbox"/>
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	<input type="checkbox"/>
8081 Pesticides / 8082 PCB's	<input type="checkbox"/>
8260B (VOA)	<input type="checkbox"/>
8270 (Semi-VOA)	<input type="checkbox"/>
Chlorides	<input checked="" type="checkbox"/>
TDS	<input checked="" type="checkbox"/>
Air Bubbles (Y or N)	<input type="checkbox"/>

Remarks:



COVER LETTER

Wednesday, January 26, 2011

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241

TEL: (575) 397-0510
FAX (575) 393-4388

RE: Fasken Denton Mainline

Order No.: 1101568

Dear Bob Allen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 1/19/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 26-Jan-11

CLIENT: Safety & Environmental Solutions
Lab Order: 1101568
Project: Fasken Denton Mainline
Lab ID: 1101568-01

Client Sample ID: MW#1
Collection Date: 1/14/2011 8:55:00 AM
Date Received: 1/19/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	1/20/2011 2:02:18 PM
Benzene	ND	1.0		µg/L	1	1/20/2011 2:02:18 PM
Toluene	ND	1.0		µg/L	1	1/20/2011 2:02:18 PM
Ethylbenzene	ND	1.0		µg/L	1	1/20/2011 2:02:18 PM
Xylenes, Total	ND	2.0		µg/L	1	1/20/2011 2:02:18 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2011 2:02:18 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/20/2011 2:02:18 PM
Surr: 4-Bromofluorobenzene	129	81.3-151		%REC	1	1/20/2011 2:02:18 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	41	10		mg/L	20	1/21/2011 7:09:13 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	720	200		mg/L	1	1/20/2011 5:10:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions
 Project: Fasken Denton Mainline

Work Order: 1101568

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sample ID: LCS		LCS									
Chloride	4.832	mg/L	0.50	5	0	96.6	90	110			
Sample ID: LCS		LCS									
Chloride	4.555	mg/L	0.50	5	0	91.1	90	110			

Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		MBLK									
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Sample ID: 100NG BTEX LCS		LCS									
Methyl tert-butyl ether (MTBE)	23.11	µg/L	2.5	20	0	116	75.5	124			
Benzene	21.80	µg/L	1.0	20	0	109	84.7	118			
Toluene	22.47	µg/L	1.0	20	0	112	82	123			
Ethylbenzene	22.18	µg/L	1.0	20	0	111	83	118			
Xylenes, Total	68.20	µg/L	2.0	60	0	114	85.4	119			
1,2,4-Trimethylbenzene	20.62	µg/L	1.0	20	0	103	82.1	113			
1,3,5-Trimethylbenzene	22.40	µg/L	1.0	20	0	112	89.6	119			

Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-25303		MBLK									
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-25303		LCS									
Total Dissolved Solids	998.0	mg/L	20.0	1000	0	99.8	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SAFETY ENV SOLUTIONS

Date Received:

1/19/2011

Work Order Number 1101568

Received by: AMG

Sample ID labels checked by:

Initials

Checklist completed by:

Signature

Date

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

3.0°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved
bottles checked for
pH:

<2 >12 unless noted
below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Tuesday, May 03, 2011

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241

TEL: (575) 397-0510

FAX (575) 393-4388

RE: Denton SWD Main Line

Order No.: 1104949

Dear Bob Allen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 4/27/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 03-May-11

CLIENT: Safety & Environmental Solutions
Lab Order: 1104949
Project: Denton SWD Main Line
Lab ID: 1104949-01

Client Sample ID: MW-1
Collection Date: 4/26/2011 9:50:00 AM
Date Received: 4/27/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	4/29/2011 4:31:28 PM
Benzene	ND	1.0		µg/L	1	4/29/2011 4:31:28 PM
Toluene	ND	1.0		µg/L	1	4/29/2011 4:31:28 PM
Ethylbenzene	ND	1.0		µg/L	1	4/29/2011 4:31:28 PM
Xylenes, Total	ND	2.0		µg/L	1	4/29/2011 4:31:28 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/29/2011 4:31:28 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/29/2011 4:31:28 PM
Surr: 4-Bromofluorobenzene	102	96.8-145		%REC	1	4/29/2011 4:31:28 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	38	10		mg/L	20	4/27/2011 10:40:43 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	540	100		mg/L	1	5/1/2011 5:27:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Safety & Environmental Solutions

Project: Denton SWD Main Line

Work Order: 1104949

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		LCS				Batch ID: R45012		Analysis Date: 4/28/2011 4:46:26 AM			
Chloride	4.993	mg/L	0.50	5	0	99.9	90	110			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		MBLK				Batch ID: R45059		Analysis Date: 4/29/2011 8:29:49 AM			
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
Sample ID: 100NG BTEX LCS		LCS				Batch ID: R45059		Analysis Date: 4/29/2011 12:00:45 PM			
Methyl tert-butyl ether (MTBE)	22.58	µg/L	2.5	20	0	113	97.6	132			
Benzene	22.94	µg/L	1.0	20	0	115	93.4	120			
Toluene	23.13	µg/L	1.0	20	0.14	115	96.2	122			
Ethylbenzene	21.97	µg/L	1.0	20	0.11	109	95	121			
Xylenes, Total	67.37	µg/L	2.0	60	0	112	97.6	122			
1,2,4-Trimethylbenzene	19.22	µg/L	1.0	20	0.144	95.4	86.1	113			
1,3,5-Trimethylbenzene	20.73	µg/L	1.0	20	0	104	94.9	123			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-26598		MBLK				Batch ID: 26598		Analysis Date: 5/1/2011 5:27:00 PM			
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-26598		LCS				Batch ID: 26598		Analysis Date: 5/1/2011 5:27:00 PM			
Total Dissolved Solids	1028	mg/L	20.0	1000	0	103	80	120			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SAFETY ENV SOLUTIONS

Date Received:

4/27/2011

Work Order Number 1104949

Received by: MMG

Checklist completed by:

Signature

Sample ID labels checked by:

Initials

Matrix:

Carrier name: UPS

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - Preservation labels on bottle and cap match?

Yes ☐

No ☐

N/A ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

1.0°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved
bottles checked for
pH:

<2 >12 unless noted
below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action



**HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY**

*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 19, 2012

Dave Boyer

Safety & Environmental Solutions

PO Box 1613

Hobbs, NM 88241

TEL: (575) 390-7067

FAX (575) 393-4388

RE: Denton SWA Main Line

OrderNo.: 1201378

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/13/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201378

Date Reported: 1/19/2012

CLIENT: Safety & Environmental Solutions**Client Sample ID:** MW-1**Project:** Denton SWA Main Line**Collection Date:** 12/16/2011 10:20:00 AM**Lab ID:** 1201378-001**Matrix:** AQUEOUS**Received Date:** 1/13/2012 9:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5	H	µg/L	1	1/17/2012 4:46:48 AM
Benzene	ND	1.0	H	µg/L	1	1/17/2012 4:46:48 AM
Toluene	ND	1.0	H	µg/L	1	1/17/2012 4:46:48 AM
Ethylbenzene	ND	1.0	H	µg/L	1	1/17/2012 4:46:48 AM
Xylenes, Total	ND	2.0	H	µg/L	1	1/17/2012 4:46:48 AM
1,2,4-Trimethylbenzene	ND	1.0	H	µg/L	1	1/17/2012 4:46:48 AM
1,3,5-Trimethylbenzene	ND	1.0	H	µg/L	1	1/17/2012 4:46:48 AM
Surr: 4-Bromofluorobenzene	98.6	76.5-115	H	%REC	1	1/17/2012 4:46:48 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	36	10	H	mg/L	20	1/16/2012 1:44:37 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	522	40.0	H	mg/L	1	1/18/2012 7:03:00 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201378

19-Jan-12

Client: Safety & Environmental Solutions

Project: Denton SWA Main Line

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R407	RunNo:	407					
Prep Date:		Analysis Date:	1/16/2012	SeqNo:	11949	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R407	RunNo:	407					
Prep Date:		Analysis Date:	1/16/2012	SeqNo:	11950	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	96.4	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R407	RunNo:	407					
Prep Date:		Analysis Date:	1/16/2012	SeqNo:	12005	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R407	RunNo:	407					
Prep Date:		Analysis Date:	1/16/2012	SeqNo:	12006	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.3	90	110			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201378

19-Jan-12

Client: Safety & Environmental Solutions

Project: Denton SWA Main Line

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R410	RunNo:	410					
Prep Date:		Analysis Date:	1/16/2012	SeqNo:	12097	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	21		20.00		104	76.5	115			

Sample ID	100NG BTEX LCS2	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R410	RunNo:	410					
Prep Date:		Analysis Date:	1/16/2012	SeqNo:	12101	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23	2.5	20.00	0	115	44.7	148			
Benzene	20	1.0	20.00	0	99.3	80	120			
Toluene	20	1.0	20.00	0	97.7	80	120			
Ethylbenzene	19	1.0	20.00	0	95.3	80	120			
Xylenes, Total	58	2.0	60.00	0	97.1	78.6	121			
1,2,4-Trimethylbenzene	19	1.0	20.00	0	92.8	75.1	120			
1,3,5-Trimethylbenzene	19	1.0	20.00	0	95.0	76.4	122			
Surr: 4-Bromofluorobenzene	22		20.00		108	76.5	115			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201378

19-Jan-12

Client: Safety & Environmental Solutions

Project: Denton SWA Main Line

Sample ID	MB-296	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	296	RunNo:	424					
Prep Date:	1/16/2012	Analysis Date:	1/18/2012	SeqNo:	12289	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-296	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	296	RunNo:	424					
Prep Date:	1/16/2012	Analysis Date:	1/18/2012	SeqNo:	12290	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,030	20.0	1,000	16.00	102	80	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

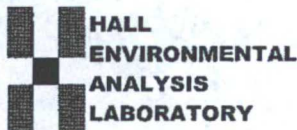
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1201378

Logged by: Lindsay Mangin

1/13/2012 9:40:00 AM

Completed By: Lindsay Mangin

1/13/2012 10:52:42 AM

Reviewed By:

NG-1/13/12

Chain of Custody

- | | | | |
|----------------------------------|---------|----|---------------|
| 1. Were seals intact? | Yes | No | Not Present ✓ |
| 2. Is Chain of Custody complete? | Yes ✓ | No | Not Present |
| 3. How was the sample delivered? | Courier | | |

Log In

- | | | | |
|---|-------|------|--|
| 4. Coolers are present? (see 19. for cooler specific information) | Yes ✓ | No | NA |
| 5. Was an attempt made to cool the samples? | Yes ✓ | No | NA |
| 6. Were all samples received at a temperature of >0° C to 6.0°C | Yes ✓ | No | NA |
| 7. Sample(s) in proper container(s)? | Yes ✓ | No | |
| 8. Sufficient sample volume for indicated test(s)? | Yes ✓ | No | |
| 9. Are samples (except VOA and ONG) properly preserved? | Yes ✓ | No | |
| 10. Was preservative added to bottles? | Yes | No ✓ | NA |
| 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? | Yes ✓ | No | No VOA Vials |
| 12. Were any sample containers received broken? | Yes | No ✓ | |
| 13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes ✓ | No | # of preserved
bottles checked
for pH: |
| 14. Are matrices correctly identified on Chain of Custody? | Yes ✓ | No | (<2 or >12 unless noted) |
| 15. Is it clear what analyses were requested? | Yes ✓ | No | Adjusted? |
| 16. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes | No ✓ | Checked by: |

Special Handling (if applicable)

- | | | | |
|---|-----|----|------|
| 17. Was client notified of all discrepancies with this order? | Yes | No | NA ✓ |
|---|-----|----|------|

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

18. Additional remarks:

CLIENT IS AWARE SAMPLES WERE SENT OUT OF HOLD AND NOTED IN THE "REMARKS" ON COC TO ANALYZE OUT OF HOLD

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

Chain-of-Custody Record

Client: Sage & Environmental
Solution

Mailing Address: 703 E. Claron

Hobbs, NM 87401

Phone #: 505-397-0570

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Project Manager:

Boyer, Dave

Sampler:

Sage, Jerry

On Ice: ☒ Yes ☐ No

Sample Temperature: Lo

Date Time Matrix Sample Request ID

12/16/11 0020 1420 CWS-1

Container Type and #

4 HCL

Preservative Type

-1

HEALING

120131X

Date:

Time:

Date:

Time:

Relinquished by:

Sage, Jerry

Relinquished by:

Sage, Jerry

Received by:

Sage, Jerry

Received by:

Sage, Jerry

Date

Time

Date

Time

Remarks:

Analyze out of cold

12/13/11 0940

12/13/11 0940

Remarks:

Analyze out of cold

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Remarks:

Analyze out of cold



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

March 14, 2012

Dave Boyer

Safety & Environmental Solutions

PO Box 1613

Hobbs, NM 88241

TEL: (575) 390-7067

FAX (575) 393-4388

RE: Faskin Denton SWD #1

OrderNo.: 1203154

Dear Dave Boyer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/6/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1203154

Date Reported: 3/14/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Safety & Environmental Solutions**Client Sample ID:** MW-1**Project:** Faskin Denton SWD #1**Collection Date:** 3/5/2012 8:38:00 AM**Lab ID:** 1203154-001**Matrix:** AQUEOUS**Received Date:** 3/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/6/2012 11:28:40 PM
Benzene	ND	1.0		µg/L	1	3/6/2012 11:28:40 PM
Toluene	ND	1.0		µg/L	1	3/6/2012 11:28:40 PM
Ethylbenzene	ND	1.0		µg/L	1	3/6/2012 11:28:40 PM
Xylenes, Total	ND	2.0		µg/L	1	3/6/2012 11:28:40 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/6/2012 11:28:40 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/6/2012 11:28:40 PM
Surr: 4-Bromofluorobenzene	87.6	76.5-115		%REC	1	3/6/2012 11:28:40 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	110	10		mg/L	20	3/6/2012 9:16:33 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	694	40.0		mg/L	1	3/13/2012 9:05:00 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203154

Date Reported: 3/14/2012

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-2

Project: Faskin Denton SWD #1

Collection Date: 3/5/2012 8:55:00 AM

Lab ID: 1203154-002

Matrix: AQUEOUS

Received Date: 3/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/6/2012 11:58:54 PM
Benzene	ND	1.0		µg/L	1	3/6/2012 11:58:54 PM
Toluene	ND	1.0		µg/L	1	3/6/2012 11:58:54 PM
Ethylbenzene	ND	1.0		µg/L	1	3/6/2012 11:58:54 PM
Xylenes, Total	ND	2.0		µg/L	1	3/6/2012 11:58:54 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/6/2012 11:58:54 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/6/2012 11:58:54 PM
Surr: 4-Bromofluorobenzene	72.9	76.5-115	S	%REC	1	3/6/2012 11:58:54 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	720	25		mg/L	50	3/7/2012 5:04:20 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1,750	40.0		mg/L	1	3/13/2012 9:05:00 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1203154

Date Reported: 3/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: MW-3

Project: Faskin Denton SWD #1

Collection Date: 3/5/2012 9:25:00 AM

Lab ID: 1203154-003

Matrix: AQUEOUS

Received Date: 3/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/7/2012 12:29:03 AM
Benzene	ND	1.0		µg/L	1	3/7/2012 12:29:03 AM
Toluene	ND	1.0		µg/L	1	3/7/2012 12:29:03 AM
Ethylbenzene	ND	1.0		µg/L	1	3/7/2012 12:29:03 AM
Xylenes, Total	ND	2.0		µg/L	1	3/7/2012 12:29:03 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/7/2012 12:29:03 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/7/2012 12:29:03 AM
Surr: 4-Bromofluorobenzene	85.0	76.5-115		%REC	1	3/7/2012 12:29:03 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	49	10		mg/L	20	3/6/2012 10:06:12 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	428	40.0		mg/L	1	3/13/2012 9:05:00 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1203154

Date Reported: 3/14/2012

CLIENT: Safety & Environmental Solutions

Client Sample ID: Trip Blank

Project: Faskin Denton SWD #1

Collection Date:

Lab ID: 1203154-004

Matrix: TRIP BLANK

Received Date: 3/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	3/7/2012 12:59:21 AM
Benzene	ND	1.0		µg/L	1	3/7/2012 12:59:21 AM
Toluene	ND	1.0		µg/L	1	3/7/2012 12:59:21 AM
Ethylbenzene	ND	1.0		µg/L	1	3/7/2012 12:59:21 AM
Xylenes, Total	ND	2.0		µg/L	1	3/7/2012 12:59:21 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/7/2012 12:59:21 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/7/2012 12:59:21 AM
Surr: 4-Bromofluorobenzene	90.2	76.5-115		%REC	1	3/7/2012 12:59:21 AM

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203154

14-Mar-12

Client: Safety & Environmental Solutions

Project: Faskin Denton SWD #1

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1302	RunNo:	1302					
Prep Date:		Analysis Date:	3/6/2012	SeqNo:	36892	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1302	RunNo:	1302					
Prep Date:		Analysis Date:	3/6/2012	SeqNo:	36893	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.3	90	110			

Sample ID	1203142-001BMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1302	RunNo:	1302					
Prep Date:		Analysis Date:	3/6/2012	SeqNo:	36895	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	0.50	5.000	13.32	101	78	107			

Sample ID	1203142-001BMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R1302	RunNo:	1302					
Prep Date:		Analysis Date:	3/6/2012	SeqNo:	36896	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	0.50	5.000	13.32	97.7	78	107	1.03	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1343	RunNo:	1343					
Prep Date:		Analysis Date:	3/7/2012	SeqNo:	37935	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1343	RunNo:	1343					
Prep Date:		Analysis Date:	3/7/2012	SeqNo:	37936	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.7	90	110			

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R1343	RunNo:	1343					
Prep Date:		Analysis Date:	3/7/2012	SeqNo:	37979	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203154

14-Mar-12

Client: Safety & Environmental Solutions

Project: Faskin Denton SWD #1

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R1343	RunNo:	1343					
Prep Date:		Analysis Date:	3/7/2012	SeqNo:	37980	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.8	90	110			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203154

14-Mar-12

Client: Safety & Environmental Solutions

Project: Faskin Denton SWD #1

Sample ID	5ML-RB	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBW	Batch ID	R1309	RunNo	1309					
Prep Date:		Analysis Date:	3/6/2012	SeqNo	37100	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	19		20.00		94.3	76.5	115			

Sample ID	100NG BTEX LCS	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSW	Batch ID	R1309	RunNo	1309					
Prep Date:		Analysis Date:	3/6/2012	SeqNo	37148	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23	2.5	20.00	0	115	50.5	158			
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	110	80	120			
Xylenes, Total	67	2.0	60.00	0	111	80	120			
1,2,4-Trimethylbenzene	22	1.0	20.00	0	112	80	120			
1,3,5-Trimethylbenzene	22	1.0	20.00	0	112	80	120			
Surr: 4-Bromofluorobenzene	19		20.00		97.2	76.5	115			

Sample ID	1203147-001A MS	SampType	MS	TestCode	EPA Method 8021B: Volatiles					
Client ID	BatchQC	Batch ID	R1309	RunNo	1309					
Prep Date:		Analysis Date:	3/6/2012	SeqNo	37149	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	22	2.5	20.00	0	109	58	139			
Benzene	20	1.0	20.00	0	98.0	70.1	118			
Toluene	20	1.0	20.00	0	102	72.3	117			
Ethylbenzene	20	1.0	20.00	0	99.8	73.5	117			
Xylenes, Total	61	2.0	60.00	0	102	73.1	119			
1,2,4-Trimethylbenzene	19	1.0	20.00	0.2140	96.4	65.8	121			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	101	71.1	118			
Surr: 4-Bromofluorobenzene	20		20.00		97.8	76.5	115			

Sample ID	1203147-001A MSD	SampType	MSD	TestCode	EPA Method 8021B: Volatiles					
Client ID	BatchQC	Batch ID	R1309	RunNo	1309					
Prep Date:		Analysis Date:	3/6/2012	SeqNo	37150	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203154

14-Mar-12

Client: Safety & Environmental Solutions

Project: Faskin Denton SWD #1

Sample ID	1203147-001A MSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R1309	RunNo:	1309					
Prep Date:		Analysis Date:	3/6/2012	SeqNo:	37150	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23	2.5	20.00	0	114	58	139	3.93	15.2	
Benzene	20	1.0	20.00	0	100	70.1	118	2.47	16.4	
Toluene	21	1.0	20.00	0	105	72.3	117	2.57	13.9	
Ethylbenzene	21	1.0	20.00	0	103	73.5	117	2.84	13.5	
Xylenes, Total	63	2.0	60.00	0	104	73.1	119	2.32	12.9	
1,2,4-Trimethylbenzene	20	1.0	20.00	0.2140	97.9	65.8	121	1.49	13.5	
1,3,5-Trimethylbenzene	21	1.0	20.00	0	104	71.1	118	3.22	13.7	
Surr: 4-Bromofluorobenzene	20		20.00		99.6	76.5	115	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203154

14-Mar-12

Client: Safety & Environmental Solutions

Project: Faskin Denton SWD #1

Sample ID	MB-1029	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids						
Client ID:	PBW	Batch ID: 1029		RunNo: 1423						
Prep Date:	3/9/2012	Analysis Date: 3/13/2012		SeqNo: 40027		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-1029	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	1029	RunNo:	1423					
Prep Date:	3/9/2012	Analysis Date:	3/13/2012	SeqNo:	40028	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,010	20.0	1,000	0	101	80	120			

Sample ID	1203275-001BMS	SampType:	MS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	BatchQC	Batch ID:	1029	RunNo:	1423					
Prep Date:	3/9/2012	Analysis Date:	3/13/2012	SeqNo:	40041	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1,460	20.0	1,000	434.0	102	80	120			

Sample ID	1203275-001BMSD	SampType:	MSD	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	BatchQC	Batch ID:	1029	RunNo:	1423					
Prep Date:	3/9/2012	Analysis Date:	3/13/2012	SeqNo:	40042	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1.450	20.0	1.000	434.0	102	80	120	0.344	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Safety Env Solutions		Work Order Number: 1203154
Received by/date: <u>mg</u> <u>03/06/12</u>		
Logged By: Michelle Garcia	3/6/2012 9:45:00 AM	<u>Michelle Garcia</u>
Completed By: Michelle Garcia	3/6/2012 10:46:18 AM	<u>Michelle Garcia</u>
Reviewed By: <u>[Signature]</u> <u>03/06/12</u>		

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

Chain-of-Custody Record

Client: Safety & Environmental Solutions
 Mailing Address: 703 E. Clinton
Hobbs NM 88249
 Phone #: 575-397-0510
 email or Fax#: dsboycer@se-solutions.com
 QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ NELAP ☐ Other
☐ EDD (Type) _____

Project Manager:
Boyer Dave
 Sampler: Sgt. Boyer
 On Ice: ☒ Yes ☐ No
 Sample Temperature: 2.1°

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No
3/05/12	0838	120	NW-1	4	12L	1203154
3/05/12	0855	120	NW-2	4	12L	-2
3/05/12	0925	120	NW-3	4	12L	-3
			Trip Blank			-4
			High color			

Date: 3/05/12 Time: 1530
 Relinquished by: Sgt. Boyer
 Date: _____ Time: _____
 Relinquished by: _____

Received by: Maria Garcia Date: 03/06/12 Time: 0945
 Received by: _____ Date: _____ Time: _____

Turn-Around Time:

☒ Standard ☐ Rush
 Project Name: Asoskin
Dartan SUD #1
 Project #: 7AS-10-003

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TPH (Gas only)	
BTEX + MTBE + TMBs (8021)	X
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
8310 (PNA or PAH)	
RCRA 8 Metals	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	X X
Air Bubbles (Y or N)	X X

Remarks:



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

May 03, 2012

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: FAS-10-004

Enclosed are the results of analyses for samples received by the laboratory on 04/26/12 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 04/26/2012
 Reported: 05/03/2012
 Project Name: FAS-10-004
 Project Number: DENTON SWD MAINLINE
 Project Location: HWY 82

 Sampling Date: 04/26/2012
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: MW-1 (H200960-01)
BTEX 8260B

mg/L

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	05/01/2012	ND	0.022	112	0.0200	7.82	
Toluene*	<0.001	0.001	05/01/2012	ND	0.020	102	0.0200	3.78	
Ethylbenzene*	<0.001	0.001	05/01/2012	ND	0.020	102	0.0200	4.80	
Total Xylenes*	<0.003	0.003	05/01/2012	ND	0.062	103	0.0600	4.40	

Surrogate: Dibromofluoromethane 107 % 59.8-161

Surrogate: Toluene-d8 98.2 % 75.2-115

Surrogate: 4-Bromofluorobenzene 88.8 % 53.7-120

Chloride, SM4500Cl-B

mg/L

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	04/27/2012	ND	100	100	100	3.92	

TDS 160.1

mg/L

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	463	5.00	04/30/2012	ND	220	91.7	240	0.428	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

Page (of

ANALYSIS REQUEST																																												
<div style="display: flex; justify-content: space-between;"> <div> Company Name: Safety & Environmental Solutions, Inc. Project Manager: Bob Allen Address: 703 East Clinton City: Hobbs State: NM Zip: 88240 Phone #: 575-397-0510 Fax #: 575-393-4388 Project #: 715-10-004 Project Owner: Fortisys Oil Project Name: Denton Solid Mainline (Fortisys) Project Location: Highway 82 Sampler Name: Sage Jones </div> <div> Lab I.D. H200940 Sample I.D. -1 MW-1 </div> </div>																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th colspan="2">MATRIX</th> <th>PRESERV.</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>(G) RAB OR (C) OMP.</th> <th># CONTAINERS</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> </tr> </thead> <tbody> <tr> <td>6/4</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>OTHER: ACID/BASE:</td> <td>ICE / COOL</td> <td>OTHER:</td> <td>DATE</td> <td>TIME</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>04/26/12</td> <td>1220</td> </tr> </tbody> </table>										FOR LAB USE ONLY		MATRIX		PRESERV.	SAMPLING		(G) RAB OR (C) OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	6/4	X								OTHER: ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						04/26/12	1220
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<div style="display: flex; justify-content: space-between;"> <div> Delivered By: (Circle One) Sampler - UPS - Bus - Other: </div> <div> Checked By: (Initials) Temp: 50 </div> </div>																																												

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.