1RP-475 Denton 1 SWD Mainline (Americo Spill)

Spill date - 7/25/2004.

Spill & Volume: Produced water, 10,000 bbls (estimated), no fluid recovered. Spill notes: Mainline ruptured causing large spill. Initial assessment in 9/2004 showed high chloride concentrations at surface, decreasing concentrations in borings. SESI submitted workplan, dated August 5, 2005. Workplan notes groundwater at 59.1 feet below ground surface. <u>Cross reference to 1RP-4169.</u> Spill area was excavated, liner installed, and backfilled with new, clean soil. Photos: Illegible photos in 9-2004 SESI report, maps in SESI 9-2004 report Additional notes: Part of a group of historic spills remediated by Fasken at demand of surface owner. Spill cleaned up by Fasken under 1RP-4169 Documents Attached:

- New Mexico Form C-141 from Americo (handwritten, poor quality)
- SESI Assessment Report, September 28, 2004 (download from OCD)
- SESI Workplan, August 5, 2005 (download from OCD)

FASKEN STATUS: CLOSED

Administrative/Environmental Order



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: pPAC0603947023

1RP - 475

FASKEN OIL & RANCH LTD

4/19/2016

- MAY 0 3 2011	rna.		raus 2	
	te of New Mexico erals and Natural Resources			Form C-141
District/II Oil Co District IV District V 1220 5	South St. Francis Dr.		Submit 2 Copies a District Office	n approprian n accordance 116 on back
1220 S. SL Frances Dr., Sames Pa, NM 97505 Sam	ta Fe, NM 87505		HUI KVG	side of form
Kelease Nobiica	operator		tisl Report	Final Report
Name of Company AWLERCO CAL-MAY RESOURCE Address (18940 010 KATY Rd. Houston, V& T7043	43 Contact Staves	MINH 0926		
Facility Name AGAZZAS SAITS # 1	Facility Type Sider		105AL LINE	
Surface Owner 1)ACL Physical Mineral Ow		/ Lease	No.	
Unit Letter Section Yowaship Range Feet from the	North South Line Feet from the	Eust/West Line	County	
11 155 396 UNK	UNK UNK	UNK	LEA	
Latitude	Longitude			
Type of Release SACT WATCH	Volume of Release 10, 0	00 Volume	Recovered 2	
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Yes 🗍 No 🗍 Not Requi	ines Dites Argues 16	ney Wink		
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74

Leking, Geoffrey R, EMNRD

From: Sent: To: Cc: Subject: Attachments: Jimmy Carlile [jimmyc@forl.com] Monday, May 09, 2011 6:54 AM Leking, Geoffrey R, EMNRD 'Reggie Brooks'; 'David Adkins' Denton SWD System - Historic Work Plan and Approval 20110509073216.pdf

HOBBS OCD

LAY U 9 2011

Geoff,

RECEIVED

In response to your email on Friday, attached is the work plan and approval for the remediation of the historic spills at the Denton SWD System. I will be in the office till 11 am this morning, then out on personal business this afternoon. Back on Tuesday. Please let me know if you have any questions. Please contact Mike Stubblefield with Talon with your approval to line the excavation and begin backfill operations. Thanks.

Jimmy D. Carlile Regulatory Affairs Coordinator

Fasken Oil and Ranch, Ltd. 303 West Wall, Suite 1800 Midland, TX 79701

432 687-1777

Jimmy Carlile

From: Sent: To: Subject: Leking, Geoffrey R, EMNRD [GeoffreyR.Leking@state.nm.us] Monday, August 10, 2009 10:11 AM jimmyc@forl.com RE: Remediation of Denton Field Historic Spill Sites

HOBBS OCD

MAY 0 9 2011

Jimmy

RECEIVED

This email serves as approval of the Fasken Oil and Ranch, Ltd, Proposed Cleanup of Historic Salt Water Spill Sites, Denton Salt Water Disposal System, Denton; Wolfcamp and Devonian Fields, Lea County, New Mexico risk based correction action plan dated July 31, 2009.

Geoffrey Leking Environmental Engineer NMOCD-Hobbs 419-393-6161 Ext. 113 419-399-2990

From: Jimmy Carlile [mailto:jimmyc@forl.com] Sent: Thursday, August 06, 2009 7:14 AM To: Leking, Geoffrey R, EMNRD Subject: RE: Remediation of Denton Field Historic Spill Sites

Geoff, just wanted to make sure you had gotten the proposed work plan for the historic sites at the Denton SWD System. Let me know if you have any questions on it. Please email me an approval of the plan, or let me know if it is already scanned into the OCD Online System. We need the approval to send to prospective environmental contractors as part of the bid process.

From: Jimmy Carlile [mailto:jimmyc@forl.com] Sent: Friday, July 31, 2009 11:36 AM To: 'Leking, Geoffrey R, EMNRD' Cc: 'Johnson, Larry, EMNRD' Subject: Remediation of Denton Field Historic Spill Sites

Good morning Geoff,

I caught Larry Johnson on his cell a little earlier today and he said he was going to be out for at least a month with some shoulder surgery. I told him Fasken will be submitting a work plan to OCD for a risk based corrective action plan to remediate what appear to be 8 historic spill sites at the Denton SWD System. We will be utilizing the same procedure we have used on other RBCA plans in this field. Larry said he would give you a heads up call on this to let you know it was coming.

I plan on getting this plan out this afternoon, so you should have it Monday or Tuesday latest. Please give me a call if you have any questions about our plan. Looking forward to working with you on this.

1

Jimmy D. Carlile

Fasken Oil and Ranch, Ltd. 303 West Wall, Suite 1800 Midland, TX 79701



Released to Imaging: 4/14/2023 1:44:03 PM

Ana-Lab Results: Fas-09-001 Fasken Mainline Delineation

Xylenes Toluene Ethyl Chloride TPH Benzene Sample Point (ug/kg) (ug/kg) (ug/kg) Benzene (mg/kg) (mg/kg) (ug/kg) N/A N/A N/A 11.9 N/A N/A BH #1 Surface 1060 ND ND ND ND ND BH #1 5' N/A N/A N/A N/A N/A BH #1 10' 975 N/A N/A N/A 223 N/A N/A BH #1 15' N/A N/A N/A N/A N/A BH #1 20' 386 N/A N/A N/A N/A BH #1 25' 14.7 N/A ND ND ND ND 10.7 ND BH #1 30' N/A N/A N/A 324 N/A N/A BH #2 Surface ND ND 544 ND ND ND BH #2 5' N/A N/A N/A N/A BH #2 10' 1410 N/A N/A N/A N/A N/A N/A BH #2 15' 2150 N/A N/A N/A N/A N/A 2150 BH #2 20' N/A N/A 1220 N/A N/A N/A BH #2 25' N/A N/A N/A 650 N/A N/A BH #2 30' N/A N/A N/A N/A 308 N/A BH #2 35' ND ND ND 218 ND ND BH #2 40' N/A N/A N/A N/A 762 N/A BH #3 Surface ND ND ND ND ND 1320 BH #3 5' N/A N/A N/A N/A 1670 N/A BH #3 10' N/A N/A N/A N/A N/A 1910 BH #3 15' N/A N/A 161 N/A N/A N/A BH #3 20' N/A N/A N/A 77.7 N/A N/A BH #3 25' ND ND ND ND ND 21.2 BH #3 30'

Site 2: Lab-Project # 440196

Sample Point	Chloride	TPH	Benzene	Toluene	Ethyl	Xylenes
and the second second	(mg/kg)	(mg/kg)	(ug/kg)	(ug/kg)	Benzene (ug/kg)	(ug/kg)
BH #1 Surface	95.7	N/A	N/A	N/A	N/A	N/A
BH #1 5'	616	ND	ND	ND	ND	ND
BH #1 10'	1010	N/A	N/A	N/A	N/A	N/A
BH #1 15'	1290	N/A	N/A	N/A	N/A	N/A
BH #1 20'	1010	N/A	N/A	N/A	N/A	N/A
BH #1 25'	826	N/A	N/A	N/A	N/A	N/A
BH #1 30'	514	N/A	N/A	N/A	N/A	N/A
BH #1 35'	34.7	N/A	N/A	N/A	N/A	N/A
BH #1 40'	24.3	ND	ND	ND	ND	ND
BH #2 Surface	2260	ND	ND	ND	ND	ND
BH #2 5'	1110	N/A	N/A	N/A	N/A	N/A
BH #2 10'	1330	N/A	N/A	N/A	N/A	N/A
BH #2 15'	1430	N/A	N/A	N/A	N/A	N/A
BH #2 20'	590	N/A	N/A	N/A	N/A	N/A
BH #2 25'	349	N/A	N/A	N/A	N/A	N/A
BH #2 30'	540	ND	ND	ND	ND	ND
BH #2 35'	282	N/A	N/A	N/A	N/A	N/A
BH #2 40'	115	N/A	N/A	N/A	N/A	N/A
BH #2 45'	77.6	ND	ND	ND	ND	ND

Sample Point	Chloride (mg/kg)	TPH (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Xylenes (ug/kg)
BH #1 Surface	17.8	N/A	N/A	N/A	N/A	N/A
BH #1 5'	N/A	N/A	N/A	N/A	N/A	N/A
BH #1 10'	646	ND	ND	ND	ND	ND
BH #1 15'	182	N/A	N/A	N/A	N/A	N/A
BH #1 20'	14.4	ND	ND	ND	ND	ND
BH #2 Surface	355	N/A	N/A	N/A	N/A	N/A
BH #2 5'	887	ND	ND	ND	ND	ND
BH #2 10'	1100	N/A	N/A	N/A	N/A	N/A
BH #2 15'	259	N/A	N/A	N/A	N/A	N/A
BH #2 20'	251	ND	ND	ND	ND	ND
BH #3' Surface	1660	N/A	N/A	N/A	N/A	N/A
BH #3 5'	N/A	N/A	N/A	N/A	N/A	N/A
BH #3 10'	968	ND	ND	ND	ND	ND
BH #3 15'	627	N/A	N/A	N/A	N/A	N/A
BH #3 20'	461	N/A	N/A	N/A	N/A	N/A
BH #3 25'	450	N/A	N/A	N/A	N/A	N/A
BH #3 30'	390	N/A	N/A	N/A	N/A	N/A
BH #3 35'	235	N/A	N/A	N/A	N/A	N/A
BH #3 40'	153	N/A	N/A	N/A	N/A	N/A
BH #3 45'	152	ND	ND	ND	ND	ND

Site 4:Lab Project #440219

Site 6: Lab Project #439520

Sample Point	Chloride (mg/kg)	TPH (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Xylenes (ug/kg)
BH #1 Surface	1070	N/A	N/A	N/A	N/A	N/A
BH #1 5'	2480	ND	ND	ND	ND	ND
BH #1 10'	1010	N/A	N/A	N/A	N/A	N/A
BH #1 15'	905	N/A	N/A	N/A	N/A	N/A
BH #1 20'	9.08	N/A	N/A	N/A	N/A	N/A
BH #1 25'	<6.00	ND	ND	ND	ND	ND
BH #2 Surface	348	N/A	N/A	N/A	N/A	N/A
BH #2 5'	N/A	N/A	N/A	N/A	N/A	N/A
BH #2 10'	1110	ND	ND	ND	ND	ND
BH #2 15'	N/A	N/A	N/A	N/A	N/A	N/A
BH #2' 20'	148	N/A	N/A	N/A	N/A	N/A
BH #2 25'	143	ND	ND	ND	ND	ND
BH #3 Surface	2070	N/A	N/A	N/A	N/A	N/A
BH #3 5'	N/A	N/A	N/A	N/A	N/A	N/A
BH #3 10'	509	ND	ND	ND	ND	ND
BH #3 15'	153	N/A	N/A	N/A	N/A	N/A
BH #3 20'	9.69	N/A	N/A	N/A	N/A	N/A
BH #3 25'	11.1	ND	ND	ND	ND	ND

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Sample Point	Chloride (mg/kg)	TPH (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Xylenes (ug/kg)
BH #1 Surface	1650	N/A	N/A	N/A	N/A	N/A
BH #1 5'	4890	ND	ND	ND	ND	ND
BH #1 10'	861	N/A	N/A	N/A	N/A	N/A
BH #1 15'	1470	N/A	N/A	N/A	N/A	N/A
BH #1 20'	1070	N/A	N/A	N/A	N/A	N/A
BH #1 25'	430	N/A	N/A	N/A	N/A	N/A
BH #1 28'	93.4	ND	ND	ND	ND	ND

Site 7:Lab Project #439521

Sample Point	Chloride	TPH	Benzene	Toluene	Ethyl	Xylenes
	(mg/kg)	(mg/kg)	(ug/kg)	(ug/kg)	Benzene (ug/kg)	(ug/kg)
BH #1 Surface	209	N/A	N/A	N/A	N/A	N/A
BH #1 5'	874	N/A	N/A	N/A	N/A	N/A
BH #1 10'	459	N/A	N/A	N/A	N/A	N/A
BH #1 15'	48.2	N/A	N/A	N/A	N/A	N/A
BH #1 20'	<6.00	ND	ND	ND	ND	ND
BH #2 Surface	273	N/A	N/A	N/A	N/A	N/A
BH #2 5'	563	ND	ND	ND	ND	ND
BH #2 10'	1410	N/A	N/A	N/A	N/A	N/A
BH #2 15'	1150	N/A	N/A	N/A	N/A	N/A
BH #2' 20'	1090	N/A	N/A	N/A	N/A	N/A
BH #2 25'	125	N/A	N/A	N/A	N/A	N/A
BH #2 27'	67.0	ND	ND	ND	ND	ND
BH #3 Surface	8.39	N/A	N/A	N/A	N/A	N/A
BH #3 5'	1090	ND	ND	ND	ND	ND
BH #3 10'	149	N/A	N/A	N/A	N/A	N/A
BH #3 15'	29.3	ND	ND	ND	ND	ND

Site 10:Lab Project #439522

Denton #1 SWD Mainline/Delineation Report September 28, 2004

Date	Sample ID	Cl (mg/Kg)	Date	Sample ID	Cl ⁻ (mg/K
23/04	SS-1	23993	9/23/04	BH #2, 25'	160
23/04	SS-2	33989	9/23/04	BH #2, 30'	320
/23/04	SS-3	31190	9/23/04	BH #3, 5'	1600
/23/04	SS-4	27591	9/23/04	BH #3, 10'	80
/23/04	SS-5	14396	9/23/04	BH #3, 15'	48
/23/04	SS-6	21593	9/23/04	BH #3, 20'	32
/23/04	SS-7	26792	 9/23/04	BH #3, 25'	48
/23/04	BH #1, 5'	2495	9/24/04	BH #4, 5'	112
/23/04	BH #1, 8-10'	2559	9/24/04	BH #4, 10'	. 48
/23/04	BH #1, 20'	1136	 9/24/04	BH #5, 5'	192
/23/04	BH #1, 25'	2719	9/24/04	BH #5, 10'	96
/23/04	BH #1, 27'	1152	9/24/04	BH #6, 5'	288
/23/04	BH #2, 5'	6158	9/24/04	BH #6, 10'	80
/23/04	BH #2, 15'	3439	9/24/04	BH #6, 15'	64
23/04	BH #2, 20'	2575			

Main Line Leak South east of Legacy battery

After samples were retrieved all boreholes were plugged back to surface with bentonite.

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VI. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Appendix A – C-141 Appendix B – Analytical Results Appendix C – Site Photos Americo Energy

Lea County, New Mexico

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Denton SWD Main Battery Spile Area Southeast of Boty March 2007

<u>Fasken Denton SWD</u> <u>Fas-07-001</u> <u>Results From Boreholes</u>

Sample ID	Field Chlorides (PPM)	Lab Chlorides	TPH: GRO	TPH: DRO	Total
BH 7 6"	236	1100			
BH 7 5'	644	1200			
BH 7 10'	1384	440			
BH 7 15'	2532	1900			
BH 7 20'	2008	1700			
BH 7 25'	1196	850			
BH 7 30'	1288	1300			
BH 7 35'	1288	1600			
BH 7 40'	956	910			1
BH 7 45'	884	550			-
BH7 50'	644	490			22
BH 8 6"	5458	5800			
BH 8 5'	1856	2100			
BH 8 10'	644	800			
BH 8 15'	644	640			
BH 8 20'	956	880			
BH 8 25'	956	310			
BH 8 30'	412	370			
BH 8 35'	336	360			
BH 8 40'	<124	64			17
BH 9 6"	5932	4700			
BH 9 5'	1416	1800			
BH 9 10'	1860	800			
BH 9 15'	268	210			
BH 9 20'	148	110			14
BH 10 6"	2008	2200	80	1200	1300
BH 10 5'	592	930	670	2000	2700
BH 10 10'	176	100	1500	4000	5500
BH 10 15'	N/A	170	62	310	370
BH 10 20'	N/A	290	ND	ND	ND

FASKEN OIL AND RANCH, LTD.

303 WEST WALL AVENUE, SUITE 1800 MIDLAND, TEXAS 79701-5116

> (432) 687-1777 jimmyc@forl.com

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MAY 0 9 2011

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Jimmy D. Carlile Regulatory Affairs Coordinator

July 31, 2009

Mr. Geoffrey Leking Environmental Engineer New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, NM 88240

Dear Mr. Leking,

Re: Fasken Oil and Ranch, Ltd. Proposed Cleanup of Historic Salt Water Spill Sites Denton Salt Water Disposal System Denton; Wolfcamp and Devonian Fields Lea County, New Mexico

Fasken Oil and Ranch, Ltd. is operator of the Denton Salt Water Disposal System serving the Denton; Wolfcamp and Devonian Fields in Lea County. Fasken has identified 8 potential historic salt water spill sites that are in need of remediation. Each of these sites has been delineated both horizontally and vertically. Fasken proposes the following risk based correction action plan to begin to remediate these sites.

Fasken will bring in an environmental contractor to excavate heavily chloride contaminated soil from above the caliche layer. We have found the caliche layer to range from 3 feet to 5 feet in depth across this area. This material will be hauled off site to an NMOCD approved land fill that is permitted to accept chloride contaminated material. Field testing will be utilized to provide updated delineation information. Laboratory analysis will be used to support final excavation limits.

A 20 mil liner will be installed above the caliche layer once the contaminated material is removed. Before the liner is put into the excavation, we will contact and secure NMOCD approval to place the liner and begin backfilling. Clean material will be backhauled and stockpiled on location to complete the backfill process. Backfill material will be sampled for chloride contamination before it is put into the excavation. Rock free material will be used to cover the liner and topsoil similar in quality to what was excavated will be used for the top 3 feet of fill.

As additional information, I have attached a map showing the location of these potential historic salt water spill sites along with the results of the vertical delineation for each site. The delineation and sampling of these sites was supervised by Safety and Environmental Solutions, Inc. out of Hobbs.

If you have any questions concerning this proposed plan please contact me at (432) 687-1777 or email me at immyc@forl.com.

Yours truly,

adie

Jimmy D. Carlile Regulatory Affairs Coordinator



P.O. Box 1613 703 East Clinton Street Hobbs, New Mexico 88240 O: 575/397-0510 F: 575/393-4388 www.sesi-nm.com

Safety & Environmental Solutions, Inc.

May 5, 2011

Mr. Jimmy Carlile Regulatory Affairs Coordinator Fasken Oil and Ranch, Ltd. 303 West Wall, Suite 1800 Midland, Texas 79701-5116

RE: FAS-10-004 Denton SWD Main line Groundwater Quality Sampling

Dear Mr. Carlile:

At the request of Fasken Oil and Ranch Ltd, Safety & Environmental Solutions, Inc. was onsite on April 26, 2011 for the purpose to sample the monitor well located approximately 0.1 miles southeast of the Legacy Battery for water quality constituents as required by the New Mexico Environment Department.

The sample for monitor well #1 was collected and transported under chain of custody to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico and analyzed for Chloride (CI)(EPA Method 300.0), Total Dissolved Solids (TDS) (EPA Method SM2540C) and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) (EPA Method 8260).

Lab ID	Sample ID	Cŀ (mg/L)	Total Dissolved Solids (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl benzene (mg/L)	Total Xylenes (mg/L)
Groundwater Standards		250(mg/L) 1,000 (mg/L)		0.01 (mg/L)	0.75 (mg/L)	0.75 (mg/L)	0.62(mg/L)
Analysis Date:-	· Leichter Allen	11/08/10	11/05/10	11/05/10	11/05/10	11/05/10	11/08/10
101117-01	MW #1	38	820	< 0.001	< 0.001	< 0.001	< 0.002
Analysis Date:	and the second second	1/20/11	1/21/11	1/20/11	1/20/11	1/20/11	1/20/11
1101568-01	MW #1	41	720	< 0.001	< 0.001	< 0.001	< 0.002
Analysis Date:	and the second	4/27/11	5/1/11	4/29/11	4/29/11	4/29/11	4/29/11
1104949-01	MW #1	38	540	< 0.001	< 0.001	< 0.001	< 0.002

The results of the analysis are as follows:

As the result of the analysis, the sample for MW #1 does not exceed groundwater standards.

If you have any questions, please contact me at (575) 397-0510.

Sincerely,

Sergio Contreras Operations Manager

200: Page 17 of 74

FASKEN OIL AND RANCH, LTD. 303 WEST WALL AVENUE, SUITE 1800 MIDLAND, TEXAS 79701-5116 (432) 687-1777 Phone (432) 687-1570 Fax

FAX TRANSMITTAL FORM

2

HOBBS OCD

MAY 0 3 2011

RECEIVED

To: Geoff Leking

Company: NMOCD - Hobbs

Date: May 2, 2011

Phone #:

Fax #: (575) 393-0720

Number of Pages (including cover):

(575) 393-6161

Sent By: Jimmy D. Carlile Regulatory Affairs Coordinator

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Geoff,

Mike Stubblefield with Talon requested I send you this C141 on the Denton Americo Spill remediation that we are trying to close. Mike will be calling you back shortly on this. I apologize for the poor copy. It's the best one we have in our files.

Jimmy D. Carlile

Page 18 of 74



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HOBBS OCD

Page 20 of 74

APR 29 2011



PHONE (575) 393-2326 ° 101 E. MARCH VEPBS, NM 88240

April 26, 2011

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: DENTON MAINLINE

Enclosed are the results of analyses for samples received by the laboratory on 04/21/11 12:45.

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 Hydorcarbons

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

Cardinal Laboratories is accreditated 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 (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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager





TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/21/2011	Sampling Date:	04/20/2011	
Reported:	04/26/2011	Sampling Type:	Soil	
Project Name:	DENTON MAINLINE	Sampling Condition:	** (See Notes)	
Project Number:	701014.024.01	Sample Received By:	Jodi Henson	
Project Location:	DENTON MAINLINE			

Sample ID: N - 1 (H100823-01)

Chloride, SM4500Cl-I	s m	mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/26/2011	ND	416	104	400	3.77	

Sample ID: N - 2 (H100823-02)

Chloride, SM4500CI-B		mg/kg Analyzed By: HM								
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	a	2960	16.0	04/26/2011	ND	416	104	400	3.77	

Sample ID: N - 3 (H100823-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2011	ND	416	104	400	3.77	

Sample ID: N - 4 (H100823-04)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/26/2011	ND	416	104	400	3.77	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	04/21/2011	Sampling Date:	04/20/2011	
Reported:	04/26/2011	Sampling Type:	Soil	
Project Name:	DENTON MAINLINE	Sampling Condition:	** (See Notes)	
Project Number:	701014.024.01	Sample Received By:	Jodi Henson	
Project Location:	DENTON MAINLINE			

Sample ID: E - 1 (H100823-05)

Chloride, SM4500Cl-B	mg/kg A		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2011	ND	416	104	400	3.77	

Sample ID: E - 2 (H100823-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/26/2011	ND	416	104	400	3.77	

Sample ID: E - 3 (H100823-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: E - 4 (H100823-08)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: E - 5 (H100823-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM	1				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/26/2011	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager





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

Analytical Results For:

TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/21/2011	Sampling Date:	04/20/2011	
Reported:	04/26/2011	Sampling Type:	Soil	
Project Name:	DENTON MAINLINE	Sampling Condition:	** (See Notes)	
Project Number:	701014.024.01	Sample Received By:	Jodi Henson	
Project Location:	DENTON MAINLINE			

Sample ID: E - 6 (H100823-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: E - 7 (H100823-11)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/26/2011	ND	432	108	400	0.00		

Sample ID: E - 8 (H100823-12)

Chloride, SM4500	CI-B	mg/l	kg	Analyzed By: HM			-			
Analy	te	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		1490	16.0	04/26/2011	ND	432	108	400	0.00	

Sample	ID: S -	1 (H10	0823-13)
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Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: S - 2 (H100823-14)

Chloride, SM4500CI-B	e, SM4500Cl-B mg/kg		hloride, SM4500Cl-B mg/kg Analyzed By: HM								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	704	16.0	04/26/2011	ND	432	108	400	0.00			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/21/2011	Sampling Date:	04/20/2011	
Reported:	04/26/2011	Sampling Type:	Soil	
Project Name:	DENTON MAINLINE	Sampling Condition:	** (See Notes)	
Project Number:	701014.024.01	Sample Received By:	Jodi Henson	
Project Location:	DENTON MAINLINE			

Sample ID: S - 3 (H100823-15)

Chloride, SM4500CI-B	mg,	mg/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: S - 4 (H100823-16)

Chloride, SM4500CI-B	OCI-B mg/kg Analyzed By: HM			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: S - 5 (H100823-17)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: S - 6 (H100823-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: S - 7 (H100823-19)

Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: HM					1.1.1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/26/2011	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/21/2011	Sampling Date:	04/20/2011
Reported:	04/26/2011	Sampling Type:	Soil
Project Name:	DENTON MAINLINE	Sampling Condition:	** (See Notes)
Project Number:	701014.024.01	Sample Received By:	Jodi Henson
Project Location:	DENTON MAINLINE		

Sample ID: W - 1 (H100823-20)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 2 (H100823-21)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 3 (H100823-22)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	04/26/2011	ND	432	108	400	0.00	

Samp	le II	D: W	- 4 ((H100823-	·23)
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Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 5 (H100823-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	04/26/2011	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/21/2011	Sampling Date:	04/20/2011	
Reported:	04/26/2011	Sampling Type:	Soil	
Project Name:	DENTON MAINLINE	Sampling Condition:	** (See Notes)	
Project Number:	701014.024.01	Sample Received By:	Jodi Henson	
Project Location:	DENTON MAINLINE			

Sample ID: W - 6 (H100823-25)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 7 (H100823-26)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 8 (H100823-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 9 (H1008	323-28)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2011	ND	432	108	400	0.00	
Sample ID: W - 10 (H100	823-29)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2011	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager





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

Analytical Results For:

TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/21/2011	Sampling Date:	04/20/2011	
Reported:	04/26/2011	Sampling Type:	Soil	
Project Name:	DENTON MAINLINE	Sampling Condition:	** (See Notes)	
Project Number:	701014.024.01	Sample Received By:	Jodi Henson	
Project Location:	DENTON MAINLINE			

Sample ID: W - 11 (H100823-30)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 12 (H100823-31)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 13 (H100823-32)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	04/26/2011	ND	432	108	400	0.00	

Sample ID: W - 14 (H100823-33)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/26/2011	ND	432	108	400	0.00	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 13



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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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Released to Imaging: 4/14/2023 1:44:03 PM

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BES: Yo8 U. Top Mct. Company: Tal-/(fé Riferia State: MrM. Zip. 982.10 Attn: Pfine: Derlon, Materia State: MrM. Zip. 982.10 Pfine: Oerlon, Materia State: Zip: Ict Name: Orither State: Zip: No.2 Sample I.D. State: Zip: No.2 MATER MATER No.2 Materia State: Zip:	Address: Yes U. T. T.ex i. M.ex. Company: T.e.J.e./(E Ciby:: MAGNia State: K.M. Zip. 98310 Address: Prome: Staty: 1354 Ext. Address: Prome: Society: State: Zip: Prome: Society: Society: Address: Prome: Society: State: Zip: Prome: Society: Address: Address: Prome: Sample I.D. Sample I.D. Sample I.D. Prome: Address: Zip: Address: Prome: Address: Zip: Address: Prome: Address: Zip: Zip: Prome: Address: Zip: Zip: Prome: Address: Zip: Zip: <tr< td=""><td>1.26</td><td>Mike Stuthle field</td><td>And the second s</td><td>P.O.#:</td><td></td><td></td><td></td><td></td></tr<>	1.26	Mike Stuthle field	And the second s	P.O.#:				
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PHONE (575) 393-23 REGENCERLAND * HOBBS, NM 88240

April 28, 2011

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: DENTON MAINLINE

Enclosed are the results of analyses for samples received by the laboratory on 04/28/11 12:48.

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 Hydorcarbons

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

Cardinal Laboratories is accreditated 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 (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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Analytical Results For:

TALON LPE MIKE STUBBLEFIELD 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	04/28/2011	Sampling Date:	04/28/2011
Reported:	04/28/2011	Sampling Type:	Soil
Project Name:	DENTON MAINLINE	Sampling Condition:	Cool & Intact
Project Number:	701014.024.01	Sample Received By:	Jodi Henson
Project Location:	DENTON MAINLINE		
Project Location.	DENTON MAINEINE		

Sample ID: N - 2 (H100880-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM	111		1.0.0		1
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2011	ND	432	108	400	0.00	

Sample ID: E - 8 (H100880-02)

Chloride, SM4500Cl-B	 mg	/kg	Analyze	d By: HM	1.1				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2011	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lability 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 walved unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall be limited to the performance of the services hereunder by Cardinal, regardless of vehicle and caims is based upon any of the above stated reasons or otherwise. Results relate only to the sample service and any other service or determines.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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 SM4500CI-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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 4 of
Americo Energy Denton #1 SWD Mainline Delineation Report Unit J, Section 11,Township 15S, Range 37E Lea County, New Mexico

September 28, 2004





Prepared for:

Americo Energy 10940 Old Katy Road Houston, Texas 77043

By:



Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 PHONE (505) 397-0510; FAX (505) 393-4388 Email: ballen@sesi-nm.com

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V.	WORK PERFORMED	1
VI.	FIGURES & APPENDICES	2

I. Company Contacts

Rusty Arnold	Americo	713-984-9700	rusty.arnold@americoenergy.com
Bob Allen	SESI	505-397-0510	<u>ballen@sesi-nm.com</u>

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged to perform delineation and cleanup services on the Denton #1 SWD Mainline. The site is located in Unit J. Section 11, Township; 15S, Range 37E. The land is owned by Mr. Darr Angell:

On July 25, 2004 the Denton # 1 SWD Mainline, which is a 1<u>0⁻ red thread fiberglass</u> pipe, split halfway through. Approximately 10,000 barrels of salt water were released. The release covered an area approximately 500' X 1,000'? The line was shut down and excavated with a backhoe. The damaged section of the line was removed and replace with new.

According to Permian Production Chemical analysis of the produced water, which flows through this line, indicate the chloride levels to be 53,053 ppm.

III. Surface and Ground Water

According to the New Mexico State Engineer online database the nearest water well is in the same quarter, section, range, and township is 96 feet. This measurement was taken in March of 1977.

IV Soils

The surface soils in the area are predominantly sand and sandy loam.

V. Work Performed

On September 23, 2004, SESI retrieved seven (7) surface samples at the subject site.

ECO Drilling of Midland, Texas was contracted to install six (6) boreholes at the site.

Borehole #1 was drilled to a depth of 30'; grab samples were retrieved at the 5', 8'-10', 20', 25', and 27' depths. Borehole #2 was drilled to a depth of 30'; grab samples were retrieved at the 5', 15', 20', 25', and 30' depths. Borehole #3 was drilled to a depth of 25'; grab samples were retrieved at the 5', 10', 15', 20', and 25'. Borehole #4 was drilled to a depth of 20'; grab samples were retrieved at the 5' and 10' depths. Borehole #5 was drilled to a depth of 10' when auger refusal was encountered, grab samples were retrieved at the 5' and 10' depths. Borehole #6 was drilled to a depth of 15'; grab samples were retrieved at the 5', 10', and 15' depths.

All samples were properly packaged and preserved and sent under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-Cl⁻B).

The results of the analysis are as follows:

Date	Sample ID	Cl⁻ (mg/Kg)		Date	Sample ID	Cl ⁻ (mg/Kg)
9/23/04	SS-1 GURENTU	e 23993		9/23/04	BH #2, 25'	160
9/23/04	SS-2	33989		9/23/04	BH #2, 30'	320
9/23/04	SS-3	31190		9/23/04	BH #3, 5'	1600
9/23/04	SS-4	27591		9/23/04	BH #3, 10'	80
9/23/04	SS-5	14396		9/23/04	BH #3, 15'	48
9/23/04	SS-6	21593		9/23/04	BH #3, 20'	32
9/23/04	SS-7	26792		9/23/04	BH #3, 25'	48
9/23/04	BH #1, 5'	2495		9/24/04	BH #4, 5'	112
9/23/04	BH #1, 8-10'	2559		9/24/04	BH #4, 10'	48
9/23/04	BH #1, 20'	1136		9/24/04	BH #5, 5'	192
9/23/04	BH #1, 25'	2719	(1) 5	9/24/04	BH #5, 10'	96
9/23/04	BH #1, 27'	1152	ANKALL BUSH	9/24/04	BH #6, 5'	288
9/23/04	BH #2, 5'	6158	57	9/24/04	BH #6, 10'	80
9/23/04	BH #2, 15'	3439	1	9/24/04	BH #6, 15'	64
9/23/04	BH #2, 20'	2575				

After samples were retrieved all boreholes were plugged back to surface with bentonite.

VI. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Appendix A – C-141 Appendix B – Analytical Results Appendix C – Site Photos

55- SURPACE SAMPLE

Figure 1 Vicinity Map



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Appendix B Site Plan



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Appendix A C-141

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Appendix B Analytical Results



PHONE (815) 679-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (605) 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: (505) 393-4388

Receiving Date: 09/27/04 Reporting Date: 09/28/04 Project Number: AME-04-001 Project Name: DENTON #1 SWD & MAINLINE Project Location: NE LOVINGTON, NM Analysis Date: 09/28/04 Sampling Date: 09/23/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

LAB NUMBER	SAMPLE ID	C(C (mg/ Kg)
H9191-1	SS-1 (SURFACE SAMPLE)	23993
H9191-2	SS-2 (SURFACE SAMPLE)	33989
H9191-3	SS-3 (SURFACE SAMPLE)	31190
H9191-4	SS-4 (SURFACE SAMPLE)	27591
H9191-5	SS-5 (SURFACE SAMPLE)	14396
H9191-6	SS-6 (SURFACE SAMPLE)	21593
H9191-7	SS-7 (SURFACE SAMPLE)	26792
H9191-8	BH 1, 5'	2495
H9191-9	BH 1, 8-10'	2559
H9191-10	BH 1, 20'	1136
H9191-11	BH 1, 25'	2719
H9191-12	BH 1, 27'	1152
Quality Control		1020
True Value QC		1000
% Recovery		102
Relative Percent I	Difference	4.9

METHOD: Standard Methods 450 Note: Analyses performed on 1:4 w:v aqueous extracts.

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody 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 clause whether whether whether based 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 use, or loss of use, or loss of profits incurned by client, its subsidiaries affiliates or processore arising out of or related to the performance of services thereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. INSULVICE



PHONE (916) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBES, NM 88240

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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 09/27/04 Reporting Date: 09/28/04 Project Number: AME-04-001 Project Name: DENTON #1 SWD & MAINLINE Project Location: NE LOVINGTON, NM

Analysis Date: 09/28/04 Sampling Date: 09/23/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

LAB NUMBER	SAMPLE ID	(mg/Kg)
H9191-13	BH 2, 5'	6158
H9191-14	BH 2, 15'	3439
H9191-15	BH 2, 20'	2575
H9191-16	BH 2, 25'	160
H9191-17	BH 2, 30'	320
H9191-18	BH 3, 5'	1600
H9191-19	BH 3, 10'	80
H9191-20	BH 3, 15'	48
H9191-21	BH 3, 20'	32
H9191-22	BH 3, 25'	48
H9191-23	BH 4, 5'	112
H9191-24	BH 4, 10'	48
Quality Control	·····	1020
True Value QC		1000
% Recovery		102
Relative Percent	Difference	4.9

METHOD: Standard Methods

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PHONE (915) 878-7001 . 2111 BEECHWOOD . ABILENE, TX 79803

PHONE (606) 399-2326 . 101 E. MARLAND . HOB83, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 09/27/04 Reporting Date: 09/28/04 Project Number: AME-04-001 Project Name: DENTON #1 SWD & MAINLINE Project Location: NE LOVINGTON, NM Analysis Date: 09/28/04 Sampling Date: 09/23/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

		CL
LAB NUMBER	SAMPLE ID	(mg/Kg)
H9191-25	BH 5, 5'	192
H9191-26	BH 5, 10'	96
H9191-27	BH 6, 5'	288
H9191-28	BH 6, 10'	80
H9191-28	BH 6, 15'	64
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Quality Control		1020
True Value QC		1000
% Recovery		102
Relative Percent	Difference	4.9

METHOD: Standard Methods

4500-CFB

Note: Analyses performed on 1:4 w:v aqueous extracts.

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Appendix C Site Photos

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Americo Energy Denton #1 SWD Mainline Work Plan Unit J, Section 11, Township 15S, Range 37E Lea County, New Mexico

August 5, 2005



Prepared for:

Americo Energy 10940 Old Katy Road Houston, Texas 77043

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (505) 397-0510

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I. Company Contacts

Rusty Arnold	Americo	713-984-9700	rusty.amold@americoenergy.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Purpose

The purpose of this work plan is to propose a plan for the cleanup of the area identified as the Denton #1 SWD Mainline. The site is located in Unit J, Section 11, Township; 15S, Range 37E. The land is owned by Mr. Darr Angell.

III. Background

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 replace with new.

IV. 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, indicates a chloride concentration of 53,053 ppm.

V. Vertical and Horizontal Extent of Contamination

As reported in the Delineation Report dated September 28, 2004 SESI installed six boreholes in the area. With the exception of Borehole #1 in which auger refusal was encountered at 30' all other boreholes indicate the vertical extent of contamination to be between 20 and 25 feet in some areas. Installation of the monitor well which is reported in the Monitor Well Installation Report dated November 11, 2004 indicated the contamination has not reached the groundwater.

VI. Groundwater

Monitor wells installed by SESI within $\frac{1}{2}$ to $\frac{3}{4}$ of a mile of the subject site have respective depths to water of 56.04' and 67.78'. During installation of the monitor well on this site the depth to groundwater was found to be 59.1 feet.

VII. Work Performed

On February 9 thru 11 the entire area was broken up into a grid. Grab samples were retrieved from each point chloride field analysis were performed on these samples. Many of the samples were then transported Under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico. The samples were analyzed for Chlorides (EPA Method 4500-CL⁻ B). The grid as well as the analysis may be found in Appendix

On June 21 2005 SESI sampled the monitor well at the site and took surface samples 20', 100', and 200' east of the pipeline. The samples were properly preserved and transported under Chain of Custody to The results of those analyses were as follows:

Denton SWD #1 Mainline/Work Plan August 5, 2005

Americo Energy Lea County, New Mexico

ID	Cľ
20' E. of Pipeline	16395
100' E. of Pipeline	64
200' E. of Pipeline	544

ÍD	Benzene	Toluene	Ethyl Benzene	Total Xylenes
MW 1	<0.002	<0.002	<0.002	<0.006

ID	Na	Ca	Mg	К	Conductivity	T-Alkalinity
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mS/cm)	(mgCaCo ₃ /L)
MW1	74	64	11	1.55	754	228

ID	Cl	SO₄	CO ₃	HCO ₃	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
MW1	40	81	0	278	6.47	585

VIII. Action Plan

The installation of boreholes and the subsequent analysis of the soil extracted from them indicate that the vertical migration of the chlorides does not extend deeper than 30'. The analysis of the groundwater extracted from the monitor well installed in the mostly heavily contaminated area confirms that the chloride contamination has not reached the groundwater.

The original total kill area covered approximately 88,000 square feet. (See Site Plan) At the present time the area void of vegetation measures approximately 9,485 square feet. The remaining area has re-vegetated itself.

The area void of vegetation will be excavated to a depth between 2 and 3 feet. This soil will be transported off-site to a New Mexico Oil Conservation Division approved disposal facility. A like amount of clean soil will be transported back to the site.

The excavation will be backfilled with the clean soil, contoured to grade and reseeded.

IV. Figures & Appendices

Figure 1. - Vicinity Map Figure 2. - Site Plan Appendix A - Grid & Analysis of Site Appendix B - Analytical Results Appendix C - Site Photos Appendix D - C-141









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Location	Depth (in.)	Field Result (mg/Kg)	Lab Result (mg/Kg)	Location	Depth (in.)	Field Result (mg/Kg)	Lab Result (mg/Kg)
A1	12	336	928	E4	12	<112	
A1	24	716	832	E4	24	<112	
A2	18	1,064	1,360	E4	36	<112	80
A2	24	1,908	2,127	E5	10		800
A3	18	180		E6	18		360
A3	26	260		E7	14		3,599
				E8	18	800	
B1	12	336		E8	26		2,639
B1	24	336		E9	18	<112	+ -
B1	36	<112	64	E9	30		64
B2	18	<112					
B2	26	<112	144	F1	12	244	
B3	18	112		F1	24	312	
B 3	36		4,159	F1	36		4,239
B4	12	<112		F2	18	388	
B4	24	600		F2	36		4,079
B4	36		1,440	F3	18	2,448	
				F3	36		4,799
C1	12	2,400		F4	12	4,980	+ -
C1	24		3,839	F4	24		4,799
C2	18	<112		F5	18	500	496
C2	26		180	F6	18		2,127
C3	18	<112		F7	12		1,312
C3	36		1,659	F8	18	1,092	
C4	18	<112		F8	30		1,600
C4	24	456		·····			
C4	36		912	H3	10		192
C5	18	600		H4	12	624	
C5	26		1,839	H4	18	3,056	
				H4	20		2,959
D1	12	1,368		H5	18	776	
D1	24	2,112		H5	30		1,480
D1	30	1,064	3,199	H6	15		1,200
D2	18	244		H7	18		2,879
D2	36	÷-	3,919				·
D3	18	305		12	12		96
D3	36		3,679	13	18	600	1,408
D4	12	<112		14	18		453
D4	24	<112		15	12	432	
D4	36		720	15	24	2,448	
D5	18	132		15	30		2,799
D5	26		256	16	18	548	
D6	18		1,040	16	30		3,279
 D7	18		1,743		1	1	
			<u> </u>	J2	12		432
E1	12	156			18		2,719
E1	24	1,888		K3	12	- +	1,999
E1	36		2,639	K4	10		80
E2	18	<112		K5	18		496
E2	36		1,839		1	1	<u> </u>
E3	18	132		L4	10		2,463
E3	36		752	L5	18	<112	
	1	1		L5	30	<112	224



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79003

PHONE (505) 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: (505) 393-4388

Receiving Date: 08/22/05 Reporting Date: 06/23/05 Project Number: AME-04-001 Project Name: DENTON SWD MAINLINE Project Location: LEA COUNTY, NM

Sampling Date: 06/21/05 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: BC

LAB NUMBER SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE	06/23/05	06/23/05	06/23/05	06/23/05
H9883-1 MW 1	<0.002	<0.002	<0.002	<0.006
		. <u></u>		
Quality Control	0.103	0.091	0.098	0.300
True Value QC	0.100	0.100	0.100	0.300
% Recovery	103	91.0	97.9	100
Relative Percent Difference	5.7	0.4	3.2	5.0

METHOD: EPA SW-846 8260

esth. cold

6/23/05 Date

PLEASE NOTE: Lisbility and Damages. Cardinal's liability and client's exclusive remady for any claim ansing, whether based in contract or tort, shall be invised to the amount paid by event for any claim ansing. Whether based in contract or tort, shall be invised to the amount paid by event for any claim ansing. Whether based in contract or tort, shall be invised to the amount paid by event for any claim ansing. If invised by Cardinal within thirty (30) days after considerior of the applicable service. In invised in various data received by Cardinal within thirty (30) days after considerior of the applicable service. In invised in various data received by Cardinal within thirty (30) days after considerior of the applicable service. In invised in various data received by client, its subsidiaries, affinates or acconstrum anising run of or received to the performance of services hereander by Cardinal, regardless of whether such claim is based upon any of the above static receives or claimwise.



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PHONE (605) 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: (505) 393-4388

Receiving Date: 06/22/05 Reporting Date: 06/27/05 Project Number: AME-04-001 Project Name: DENTON SWD MAINLINE Project Location: LEA CO, NM Sampling Date: 06/21/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: HM

LAB NUMBER SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:	06/23/05	06/23/05	06/23/05	06/23/05	06/23/05	06/23/05
H9883-1 MVV 1	74	64	11	1.55	754	228
Quality Control	NR	51	46	4.96	1322	NR
True Value QC	NR	50	50	5.00	1413	NR
% Recovery	NR	102	92.0	99.2	93.6	NR
Relative Percent Difference	NR	12.0	0	0.0	0.7	NR
METHODS	SMS	500-Ca-D	3500-Mg E	8049	120.1	310.1
	CI ⁻	SO₄	CO3	HCO3	рH	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(\$.U.)	(mg/L)
ANALYSIS DATE:	06/23/05	06/23/05	06/23/05	08/23/05	06/23/05	06/24/05
H9883-1 MW 1	40	81	0	278	6.47	585
······			-			
Quality Control	1020	50.92	NR	985	7.00	NR
True Value QC	1000	50.00	NR		-	NR
% Recovery	102	102	NR	98.5	100	NR
Relative Percent Difference	1.0	7.9	NR	0.9	0.4	1.1
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remody for any claim arising, whether second in contract or tort, shall be limited to the amount paid by client for usualysus. All claims, including tross for nographics and any other cause whatsover shall be deemed walvou unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable sensore. IN DEBOD shall Cardinal to list or incidental or consequential damages, including, without throthom, business intercolons, loss of use, or loss of profits incurred by client, its autacularities, attilates or auccessors ansing out of or related to the performance of services hermander by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or ullisewest.



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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 06/22/05 Reporting Date: 06/27/05 Project Number: AME-04-001 Project Name: DENTON SWD MAINLINE Project Location: LEA CO, NM

Analysis Date: 06/23/05 Sampling Date: 06/21/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: HM

LAR NUMPED

C (mg/Kg)

H9883-2	1-20' E. OF PIPELINE	16395
H9883-3	2-100' E. OF PIPELINE	64
H9883-4*	3-200' E. OF PIPELINE	544
Quality Control		1020
True Value QC		1000
% Recovery		102
Relative Perce	nt Difference	10

4500-CI'B **METHOD: Standard Methods** Note: Analyses performed on 1:4 w:v aqueous extracts. "Matrix interference (color) observed.

Chemist

PLEASE NOTE: Liability and Damages. Cardinal's liability and clion's exclusive remedy for any daim arising, whether bared in contract or tort, shall be limited to the amount part by clions for any drive sense of a state of the angular and excluse to angular and excluse the angular and excluse to angular and exclusion in the angular and excluse to angular angular angular and excluse to angular angular and excluse to angular angular









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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
AMERICO ENERGY RESOURCES LLC	228051
7575 San Felipe	Action Number:
Houston, TX 77063	204009
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS					
Created By	Condition	Condition Date			
amaxwell	Historical document review. Cross reference to 1RP-4169. Spill area was excavated, liner installed, and backfilled with new, clean soil. Part of a group of historic spills remediated by Fasken at demand of surface owner. Spill cleaned up by Fasken under 1RP-4169.	4/14/2023			

CONDITIONS

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Action 204009