### 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. **Cross reference to 1RP-4169.** 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

200: / Page 3 of 74

- MAY 0 3 2011

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Attached []

Discret I 1625 N. French Dr., Hobbs. NM 88240 Discrict II 1301 W. Grand Avenue. Artesia. NM 88240 Discrict III 1000 Rio Brazos Road. Artes. NM 87410 Discrict IV 1220 S. St. Francis Dr., Sants Pa. NM 87505

RECENEDRY Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back

Form C-141

side of form Release Notification and Corrective Action **OPERATOR** Dinal Report Final Repor Name of Company Auguro RESONALES Contact STEVE SMITH Telephone No. 441-0926 DENTENS SOUTH 1 Facility Name Facility Type SHUTWATER CLESSOSAL LINE | Mineral Owner Lease No. LOCATION OF RELEASE Unit Letter Section Township Range Fest from the North/South Line Enst/West Line Feet from the County UNK UNK 376 LLOVE UNK 155 CEA Latitude Longitude NATURE OF RELEASE Volume of Release 10, 000 | Volume Recovered |
Date and Hour of Occurrence 725 | Date and Hour of Discovery
If YES, To Whom? Type of Release SALT WATER Source of Release WATERLINE 7/25 1/2 AM Was Immediate Notice Given? Yes | No | Not Required DHEE MIGHE By Whom? Dare and Hour Was a Watercourse Reached? ITYES, Volume Impacting the Watercourse. Yes X No If a Watercourse was impacted. Describe Fully." Describe Course of Problem and Remodial Action Taken." 10" KED THEERE F. BLEGGERS POR, Specif RELEVANT TAKENGE. Shat Com LINE, ESCHWAREN OF BALENDE REMOVED BURN Short OF PICE MAN REPLACED OF NEW OF PICE. Contractor can be conver he advises beforenten entire and escarator and Describe Area Affected and Cleanup Action Taken." 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 positications 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 "First Report" does not relieve the operator of liability should find operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the curisonment. In addition, NMOCD acceptance of a C-141 repost does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Approved by District Supervisors Approval Date: Expiration Date: Conditions of Approval-

stach Additional Sheets If Necessary

Phone:

### Leking, Geoffrey R, EMNRD

From: Jimmy Carlile [jimmyc@forl.com]
Sent: Monday, May 09, 2011 6:54 AM

To: Leking, Geoffrey R, EMNRD
Cc: 'Reggie Brooks'; 'David Adkins'

Subject: Denton SWD System - Historic Work Plan and Approval

Attachments: 20110509073216.pdf

HOBBS OCD

MAY 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: Leking, Geoffrey R, EMNRD [GeoffreyR.Leking@state.nm.us]

Monday, August 10, 2009 10:11 AM

To: Subject: 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

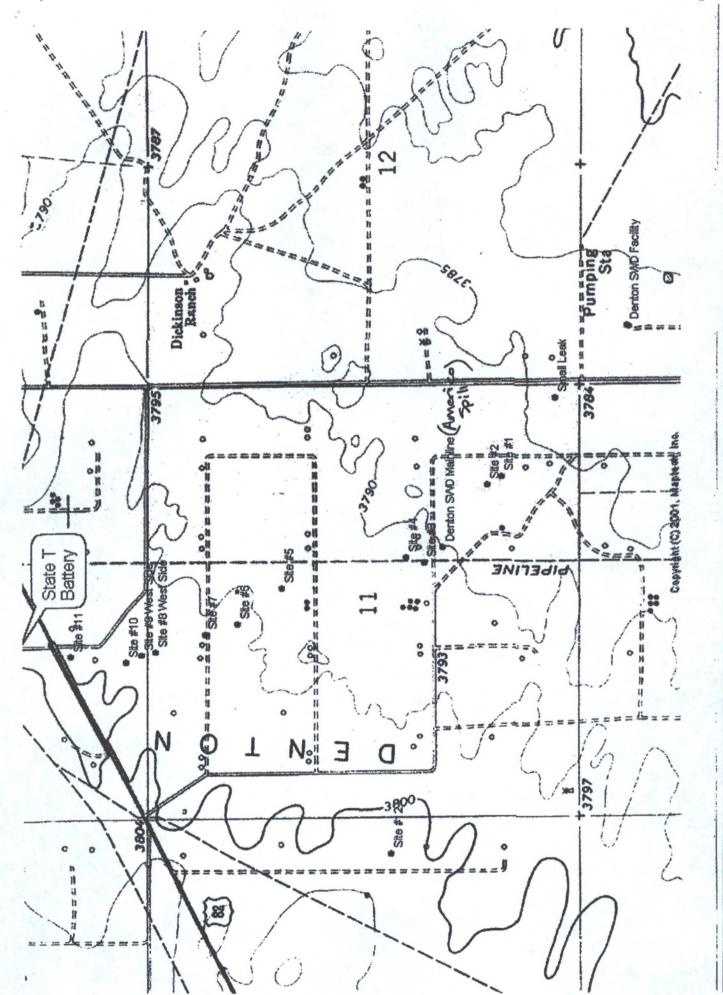
Good morning Geoff,

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.

Jimmy D. Carlile

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



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

Site 2: Lab-Project # 440196

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

Site 3: Lab Project #440217

Sample Point	Chloride (mg/kg)	TPH (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Xylenes (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			
BH #2 45'	77.6	ND	ND	ND	ND	ND	

Site 4:Lab Project #440219

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'			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 N/A N/A	
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			
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 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

Site 7:Lab Project #439521

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 10:Lab Project #439522

Sample Point	Chloride (mg/kg)	TPH (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Xylenes (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	1000		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'	The state of the s		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

Denton #1 SWD Mainline/Delineation Report September 28, 2004 Americo Energy
Lea County, New Mexico

Main Line Leak South east of Legacy battery July 2004

Date	Sample ID	CI (mg/Kg)
9/23/04	SS-1	23993
9/23/04	SS-2	33989
9/23/04	SS-3	31190
9/23/04	SS-4	27591
9/23/04	<b>SS-5</b>	14396
9/23/04	SS-6	21593
9/23/04	SS-7	26792
9/23/04	BH #1, 5'	2495
9/23/04	BH #1, 8-10'	2559
9/23/04	BH #1, 20'	1136
9/23/04	BH #1, 25'	2719
9/23/04	BH #1, 27'	1152
9/23/04	BH #2, 5'	6158
9/23/04	BH #2, 15'	3439
9/23/04	BH #2, 20'	2575

Date	Sample ID	Cl <sup>-</sup> (mg/Kg)
9/23/04	BH #2, 25'	160
9/23/04	BH #2, 30'	320
9/23/04	BH #3, 5'	1600
9/23/04	BH #3, 10'	80
9/23/04	BH #3, 15'	48
9/23/04	BH #3, 20'	32
9/23/04	BH #3, 25'	48
9/24/04	BH #4, 5'	112
9/24/04	BH #4, 10'	. 48
9/24/04	BH #5, 5'	192
9/24/04	BH #5, 10'	96
9/24/04	BH #6, 5'	288
9/24/04	BH #6, 10'	80
9/24/04	BH #6, 15'	64

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

Denton SWD Main Battery Spile Area Southeast of Poty March 2007

### Fasken Denton SWD Fas-07-001 Results From Boreholes

Sample ID	Field Chlorides (PPM)	Lab Chlorides	TPH: GRO	TPH: DRO	Total
BH 76"	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			
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.

HOBBS OCD

303 WEST WALL AVENUE, SUITE 1800 MIDLAND, TEXAS 79701-5116 MAY 0 9 2011

(432) 687-1777 jimmyc@forl.com

RECEIVED

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 <a href="mailto:immyc@forl.com">immyc@forl.com</a>.

Yours truly,

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).

The results of the analysis are as follows:

Lab ID	Sample	Cl- (mg/L)	Total Dissolved Solids (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl benzene (mg/L)	Total Xylenes (mg/L)	
Groundwater Standards 250(m		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:		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	
<b>Analysis Date:</b>		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:		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	

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

### 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** 

**HOBBS OCD** 

MAY 0 3 2011

RECEIVED

To:

Geoff Leking

Company:

NMOCD - Hobbs

Date:

May 2, 2011

Phone #:

(575) 393-6161

Fax #: (575) 393-0720

Number of Pages (including cover):

2

Sent By:

Jimmy D. Carlile

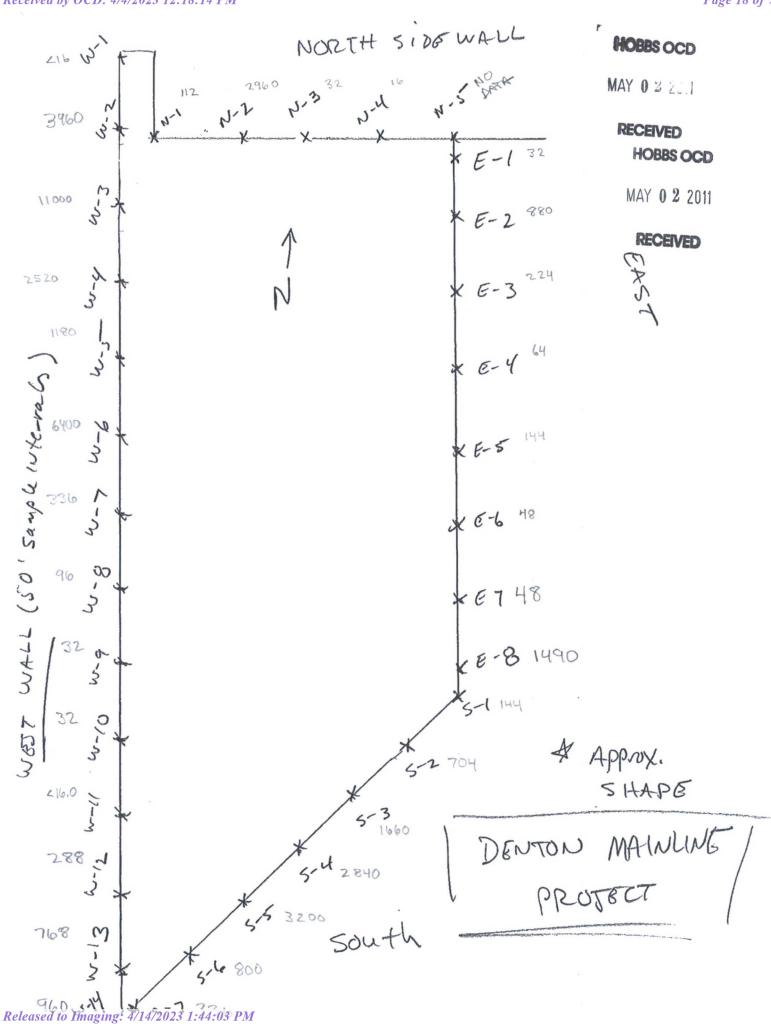
Regulatory Affairs Coordinator

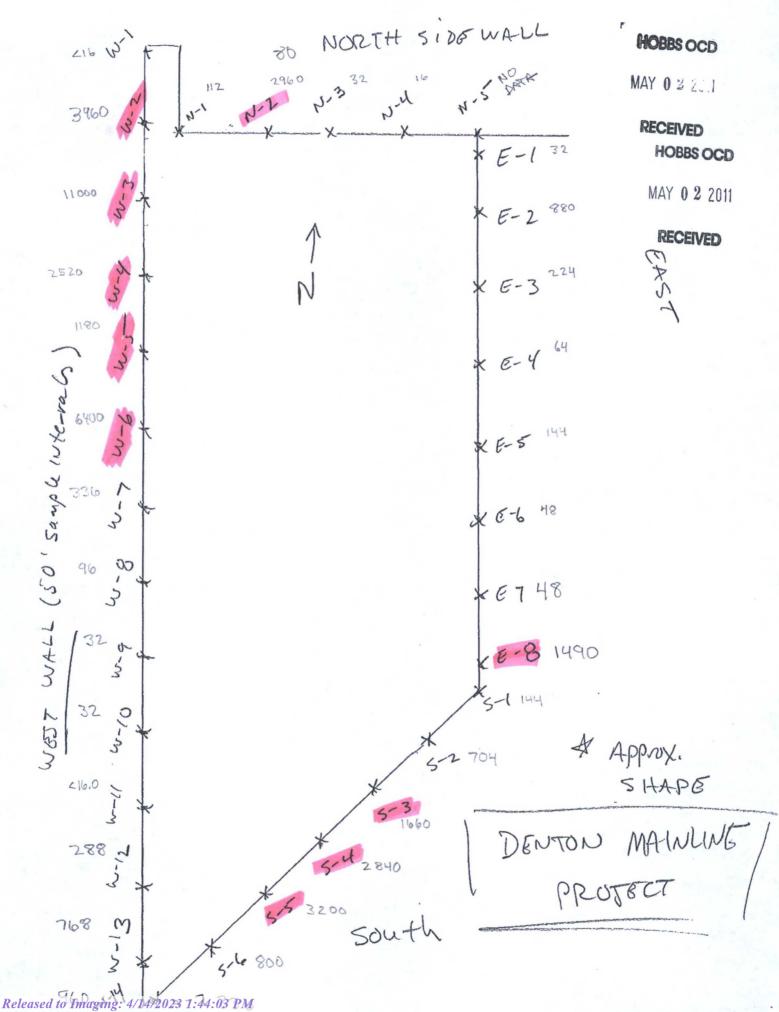
PLEASE NOTE: The information contained in this facsimile message may be PRIVILEGED AND CONFIDENTIAL, and is intended only for the use of the individual named above and others who have been specifically authorized to receive it. If you are not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, or if any problems occur with this transmission, please notify us immediately by telephone: (432) 687-1777, and return the original message to us at the address above via the United States mail. Thank You.

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





APR 29 2011



PHONE (575) 393-2326 ° 101 E. MARCO PROPERS, 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.

Celey D. Keine

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:

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

Fax To:

(575) 745-8905

Received:

04/21/2011

Reported: Project Name: 04/26/2011 **DENTON MAINLINE** 

Project Number: Project Location: 701014.024.01

**DENTON MAINLINE** 

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

04/20/2011

Jodi Henson

Sample ID: N - 1 (H100823-01)

Chloride,	SM4500Cl-B

Chloride

Chloride

### mg/kg

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

### Analyzed By: HM

Result Reporting Limit Analyte 112

Analyzed 04/26/2011 Method Blank ND

416

BS

416

BS

% Recovery 104

True Value QC 400

RPD 3.77

RPD

3.77

Qualifier

Sample ID: N - 2 (H100823-02)

Analyte

Chloride, SM4500Cl-B

mg/kg

Result

2960

Analyzed By: HM

Analyzed

04/26/2011

Method Blank ND

% Recovery

104

104

True Value QC 400

Qualifier

Sample ID: N - 3 (H100823-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Result Chloride 32.0

Analyzed 04/26/2011

Analyzed

04/26/2011

Method Blank ND

% Recovery 416

True Value QC

400

RPD

3.77

Qualifier

Sample ID: N - 4 (H100823-04)

Analyte

Chloride, SM4500Cl-B

Chloride

mg/kg

Result

16.0

Analyzed By: HM

Method Blank

ND

BS 416 % Recovery 104

True Value QC 400

**RPD** 3.77 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celegy D. Keene

Celey D. Keene, Lab Director/Quality Manager

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### 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:

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		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, SM4500Cl-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, SM4500Cl-B	mg	/kg	Analyze	d 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					
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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\*=Accredited Analyte

based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive re any other cause whatsoever shall be deemed walved 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 dam 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 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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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 13



### Analytical Results For:

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

Fax To:

(575) 745-8905

Received: Reported: 04/21/2011

04/26/2011

Project Name: Project Number: **DENTON MAINLINE** 701014.024.01

Project Location:

Analyte

Analyte

**DENTON MAINLINE** 

Sampling Date:

Sampling Type:

Soil Sampling Condition:

\*\* (See Notes)

04/20/2011

Sample Received By: Jodi Henson

Sample ID: E - 6 (H100823-10)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Result

48.0

Result

48.0

Analyzed By: HM

Analyzed

04/26/2011

Method Blank ND

BS 432

432

% Recovery 108

108

True Value QC 400

RPD 0.00 Qualifier

Sample ID: E - 7 (H100823-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyzed

04/26/2011

Method Blank ND

BS % Recovery True Value QC 400

RPD

0.00

Qualifier

Sample ID: E - 8 (H100823-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Result Chloride 1490

Analyzed 04/26/2011 Method Blank ND

BS

True Value OC % Recovery

RPD

0.00

**Oualifier** 

Sample ID: S - 1 (H100823-13)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Method Blank

432

108

400

Chloride

Chloride

Result 144

Result

704

16.0

Analyzed 04/26/2011

ND

BS 432

108

% Recovery

400

RPD 0.00

Qualifier

Sample ID: S - 2 (H100823-14)

mg/kg

Analyzed By: HM

BS

432

True Value QC

Analyte

Chloride, SM4500Cl-B

Analyzed

04/26/2011

Method Blank

ND

% Recovery

108

True Value OC

400

RPD

0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

Fax To:

(575) 745-8905

Received: Reported: 04/21/2011

Project Name: Project Number: **DENTON MAINLINE** 701014.024.01

Project Location:

04/26/2011

**DENTON MAINLINE** 

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

04/20/2011

Jodi Henson

Sample ID: S - 3 (H100823-15)

Chioride,	SM4500CI-B	

mg/kg

Result

2840

3200

Result

800

Result

336

Analyzed By: HM

Analyte Chloride

1660

16.0 04/26/2011

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Method Blank ND

432

BS

% Recovery 108

True Value QC 400

**RPD** 0.00

Qualifier

Sample ID: S - 4 (H100823-16)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Analyzed By: HM

Analyte Result Reporting Limit

Analyzed 04/26/2011

Analyzed

Method Blank ND

% Recovery

108

108

108

108

True Value QC 400

RPD

0.00

Qualifier

Sample ID: S - 5 (H100823-17)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Result

Reporting Limit Analyzed 04/26/2011 Method Blank ND

BS 432

432

True Value QC % Recovery

400

400

400

RPD 0.00 Qualifier

Sample ID: S - 6 (H100823-18)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyzed

04/26/2011

Method Blank

ND

ND

BS 432

True Value QC % Recovery

RPD

Qualifier

Chloride

Chloride

Sample ID: S - 7 (H100823-19)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

0.00

Analyte

Analyzed

04/26/2011

Method Blank

BS

432

% Recovery True Value OC RPD

0.00

Qualifier

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Celey D. Keene, Lab Director/Quality Manager

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### Analytical Results For:

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

04/21/2011

Reported: 04/26/2011

Project Name: DENTON MAINLINE
Project Number: 701014.024.01

Project Location: DENTON MAINLINE

Sampling Date: 04/20/2011

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Jodi Henson

Sample ID: W - 1 (H100823-20)

Received:

Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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 (H10082	23-21)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed 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 (H10082	-	_							
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	
Sample ID: W - 4 (H10082	23-23)								
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 (H10082	23-24)								
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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### Analytical Results For:

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

Fax To:

(575) 745-8905

Received:

04/21/2011 04/26/2011

Reported: Project Name:

**DENTON MAINLINE** 

Project Number:

701014.024.01

Project Location:

**DENTON MAINLINE** 

Sampling Date:

04/20/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes) Jodi Henson

Sample ID: W - 6 (H100823-25)

Chloride, SM4500Cl
--------------------

### mg/kg

### Analyzed By: HM

Analyte Chloride

Result Reporting Limit

6400

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

04/26/2011

Analyzed

Method Blank ND

432

BS

432

% Recovery 108

True Value QC 400

RPD

0.00

RPD

0.00

Qualifier

Sample ID: W - 7 (H100823-26)

Analyte

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyzed

Method Blank

% Recovery 108

True Value QC

Qualifier

Chloride

336

Result

16.0 04/26/2011 ND

400

Sample ID: W - 8 (H100823-27)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Method Blank

BS

% Recovery

RPD

Qualifier

Chloride

Chloride

Chloride

Result 96.0

Result

32.0

Result

32.0

16.0 04/26/2011

432

108

True Value QC 400

Sample ID: W - 9 (H100823-28)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

ND

0.00

Analyte

Reporting Limit

Analyzed 04/26/2011

Analyzed

Method Blank ND

BS 432 % Recovery

True Value QC

RPD

Qualifier

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

108

400

0.00

Sample ID: W - 10 (H100823-29)

Analyzed

04/26/2011

Method Blank

ND

BS

432

% Recovery

108

True Value QC

400

RPD

0.00

Qualifier

Cardinal Laboratories

Analyte

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### Analytical Results For:

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

Received:

04/21/2011

Reported:

04/26/2011

Project Name: Project Number: **DENTON MAINLINE** 701014.024.01

Project Location:

Analyte

Analyte

**DENTON MAINLINE** 

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

04/20/2011

Jodi Henson

Sample ID: W - 11 (H100823-30)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: HM

Result Reporting Limit <16.0

04/26/2011 16.0

Analyzed

Method Blank ND

BS 432

432

% Recovery 108

True Value QC 400

RPD 0.00 Qualifier

Sample ID: W - 12 (H100823-31)

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

16.0

Result

288

Analyzed By: HM

Analyzed

04/26/2011

Method Blank

ND

% Recovery

108

108

True Value QC 400

RPD

Qualifier

Sample ID: W - 13 (H100823-32)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Reporting Limit Analyte Result 768 16.0

Analyzed 04/26/2011 Method Blank ND

BS % Recovery 432

True Value QC 400

RPD 0.00

0.00

Qualifier

Sample ID: W - 14 (H100823-33)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Chloride

Result Reporting Limit 96.0

Analyzed 04/26/2011 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00 Qualifier

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Celey D. Keene, Lab Director/Quality Manager

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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, Lab Director/Quality Manager

Celey D. Keine

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## CARDINAL

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon LLPL	(u.	BILL 70	ANALYSIS REQUEST
Project Manager: Mike Stuffle field	hild	P.O.#:	
Address: 408 W. Teras Ave.	. Avc.	Company: Talm/186	
City: Rifesia	State: NM Zip: 88210	Attn:	
Phone #: 596-441-7254	Fax #:	Address:	
Project #: 701014,024.01	11 Project Owner:	City:	
Project Name: Ocnton Main line	iliae	State: Zip:	
Project Location:		Phone #:	
Sampler Name: mise Saught	7.	Fax #:	
FOR LAB USE CNLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE  OTHER  OTHER  OTHER  TAR  TAR  TAR  TAR  TAR  TAR  TAR  T	
HIDD\$23-1 W-1	3	" 4(30/80) 4:53A	
2 8 2	7	1/20/20 4:55A	
€ N.3	3	-	
17.77	3	/ 400:01 noc/c2/h	Company Control of the Appell Control of the
- (S)	3	1 Vzeios majoch	
2 6 5.7	4	7 8 h0; or n c2/02/h	The Common Continues of the Continues of
8 E.4	<b>5</b> - <b>5</b>	/ WOT:01 11-2/02/A	
5:3		Mittel history	
)O E-8	۵ /	1 412.00 102/02/2	
PLEASE NOTE: Liability and Damages. Cardinal's liability and clerif's exclusional analyses. All claims including those for negligence and any other cause who service, in no eventishall Cardinal be fable for incidental or consequental da	sive remedy for any daim, arisi knoevor shall be deemed walve mages, including vethout limits	ng whether based in coultact or lant, shalk be linkled to link annount paid by the climit for the ed unites made in recing and received by Cardinal within 30 days after completion of the applicable after, boakess interruptions, loss of use, or loss of profits incurred by client, its subsidenses	
anilobes or successors anilog out of or related to the performs Relinquished By:	Date:    Date:   Received By:     Page   Pag	in it based upon any of the above stated reasons or character. There is the interest in the interest intere	No [Add'l Phone #:
mans Stated if I	Time: 12: 41.Pm. Received By:		
Delivered By: (Circle One)	Sample Condition	dition CHECKED BY:	
Sampler - UPS - Bus - Other;	Sool Infact	res No	
		Manufactures of Michigan programs that the resistable and a select the resistable resistable constraints to the resistable and	

Salon Lee.  Mike Stubblefi  HOB W. Tern Me  Afteria  SHAHI-1254  DOIO14.624.01  Denton Mainlin  The Stubble India  Self Hill  Self H	Talea LEE  108 W TERA Mr.  Statte: Mm. 215: 88210  Active  Phone is:  Phone	Tales LEE  TORK GYO'S LEEL NA  ACE TO SHEET NA  ACE TO SH	Delivered By Sampler - UFS	Relinquished By:  Proof Stall And Relinquished By	chalyses. All claims include service, thin owen shall be a fill being a successors and a fill being or successors and a fill being or successors and	30	P	8	2	5	v.	n	EJ EJ	77	HIDDS23-11 E-7	Lab Use		Project Location	Project Name:	Project #:	Phone #:	City:	Address:	Project Manager:	Company Name
SERVE OF THE STATE OF TRANSPORT OF THE SERVE OF THE STATE OF THE STATE OF THE SERVE	POSS RECUENTAMERS  GROUNDMATER	POSS RECUENTAMERS  GROUNDMATER	- Bus -	المناجعة المناجعة	DON'S CONTRACT		5.7	5.6	5.5	S. 4	5.3	5-2	5.1	8-7	6-3	Sample	1		Denton Main!	701014.024.01	hs26-144-365	Arteria	408 W. Texas A	177	Talon/LPE
CIP. 89210  ZIP. 89210  ARTRIX  PRESERV SAMPLING  GROUNDWATER  WASTEWATER  SOIL  OIL  STERRE:  PROBE  CITY  ACID/BASE:  ICE / COCI.  OTHER  ACID/BASE:  OIL  OIL  SOIL  OIL  SOIL  OIL  SOIL  OIL	P. C. S.  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRA	P. C. S.  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRANK  FAIR OF FRANK  COMPLEMENT  FAIR OF FRANK  FAIR OF FRA	The second secon	1/21/2011 12:410~	cause wholsbever shall be cause wholsbever shall be squeenal damages, include to services hereunder by		and the second strict the seco	The second secon							And the second s	Ď.	Control of the Contro		inc	Project Own	Fax # 536- 7	State: NM	ř.	field	
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## CARDINAL

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## CARDINAL

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APR 29 2011



PHONE (575) 393-23 REGEN FORLAND \* 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.

Celey D. Keine

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:

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

Received: Reported: 04/28/2011

04/28/2011

Project Name: Project Number: **DENTON MAINLINE** 701014.024.01

Project Location:

**DENTON MAINLINE** 

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

04/28/2011 Soil

Cool & Intact

Jodi Henson

Sample ID: N - 2 (H100880-01)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Analyzed By: HM

Result Reporting Limit 80.0 16.0

Reporting Limit

Analyzed 04/28/2011

Analyzed

Method Blank ND

432

% Recovery 108

True Value QC 400

**RPD** 0.00 Qualifier

Sample ID: E - 8 (H100880-02)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

80.0 16.0 04/28/2011

Result

ND

Method Blank

BS 432 % Recovery 108

True Value QC 400

RPD 0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. 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 In no event shall Cardinal be liable for incidental or co 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

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



### **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

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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City:	Artecia SI	State: NM Zip:	98210	9			Attn:		N. S.										
Phone #:	575-441-7254 Fa	Fax#: 575-					Address:	ess:										_	
Project #:	701014.024.01 Pre	Project Owner:					City:												
Project Name:	Denton Mainline						State:		Z	Zip:									
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393,2476

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

ARDINAL LABORATORIES

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

September 28, 2004



Meer & walker to warter to

## 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

Cimerico - 228051 facility - FPACO603946629 Uncidend - nPACO603946782 cisplication-pPACO603941023

# **TABLE OF CONTENTS**

I.	COMPANY CONTACTS1
II.	BACKGROUND1
III.	SURFACE AND GROUND WATER1
IV.	SOILS1
٧.	WORK PERFORMED1
VI.	FIGURES & APPENDICES2

#### 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 Jo 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 10" red thread-fiberglass 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<sup>-</sup>B).

The results of the analysis are as follows:

Date	Sample ID	Cl⁻ (mg/Kg)
9/23/04	SS-1 GURENEY	23993
9/23/04	SS-2	33989
9/23/04	SS-3	31190
9/23/04	SS-4	27591
9/23/04	SS-5	14396
9/23/04	SS-6	21593
9/23/04	SS-7	26792
9/23/04	BH #1, 5'	2495
9/23/04	BH #1, 8-10'	2559
9/23/04	BH #1, 20'	1136
9/23/04	BH #1, 25'	2719
9/23/04	BH #1, 27'	1152
9/23/04	BH #2, 5'	6158
9/23/04	BH #2, 15'	3439
9/23/04	BH #2, 20'	2575

Date	Sample ID	Cl <sup>-</sup> (mg/Kg)
9/23/04	BH #2, 25'	160
9/23/04	BH #2, 30'	320
9/23/04	BH #3, 5'	1600
9/23/04	BH #3, 10'	80
9/23/04	BH #3, 15'	48
9/23/04	BH #3, 20'	32
9/23/04	BH #3, 25'	48
9/24/04	BH #4, 5'	112
9/24/04	BH #4, 10'	48
9/24/04	BH #5, 5'	192
9/24/04	BH #5, 10'	96
9/24/04	BH #6, 5'	288
9/24/04	BH #6, 10'	80
9/24/04	BH #6, 15'	64

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

### VI. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

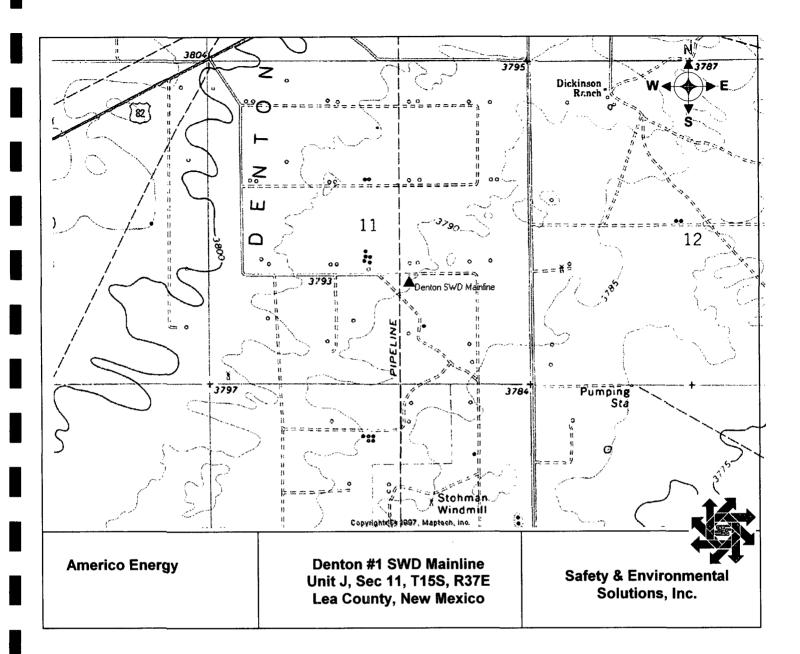
Appendix A - C-141

Appendix B – Analytical Results

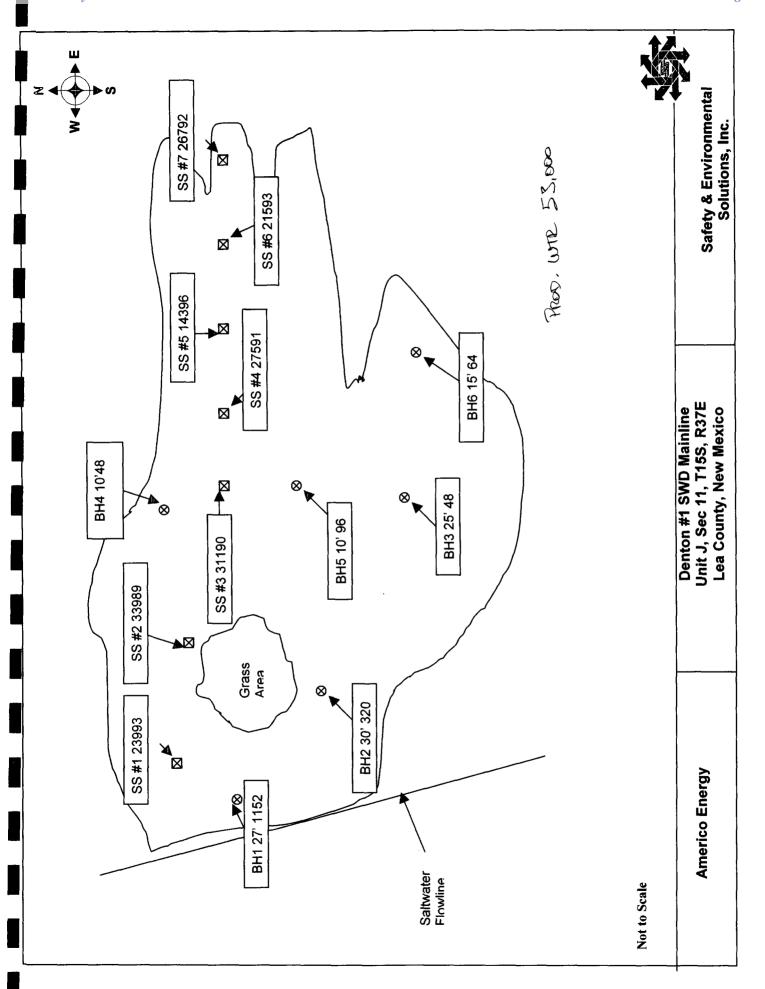
Appendix C - Site Photos

SS- SURPACE SAMPLE

Figure 1
Vicinity Map



Appendix B Site Plan



Appendix A C-141

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District!
1625 N. Franch Dr., Hobbs. NM #8240
District R
1307 W. Grand Avenue. Artesia. NM #8240
District III
1000 Rio Brizos Road. Artes. NM #7410
District IV
1220 S. St. Prancis Dr., Santa Pc, NM #7505

State of New Mexico
Energy Minerals and Natural Resources

ram.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NIM 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

Sar	ita Fe, NM 8	1/203				
Release Notifica	tion and	Corrective	Action			
	OPER	ATOR	TOP	nitial Repo	nt Γ	Final Report
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Address 19940 OLD KATY KA. Howdin, TX 7704:	Telephon	ie No. 44	-0926			
Facility Name NEWTEN SAID # 1	Facility T	ype SALT	WATER OF	spospe	- Lea	Ke
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# Appendix B Analytical Results

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PHONE (815) 679-7001 . 2111 BEECHWOOD . ABILENE, TX 79803

PHONE (505) 393-2326 . 101 E MARLAND . HOBBS, NM 68240

**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

CIT

LAB NUMBER	SAMPLE ID	(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	Difference	4.9

METHOD: Standard Methods

4500-CIB

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

PLEASE NOTE: Limbility and Destages. Card All claims, including those for negligence and er service. In no event shall Cardinal by liable for All claims, including those for negligence and any other clause whateoever shall be deemed waived unless made in writing and received by Carelinal within thirty (30) days after completion of the applicable on one event shall Carelinal be liable for incidental or consequential demandes, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates a consequential or one event shall be liable for incidental or consequential demandes, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates a consequential or one performance of services hereunder by Carelinai, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (916) 678-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

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: 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

CI

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

4500-CFB

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

Chemist

Dale

PLEASE NOTE: Numbers or contract or tox, what he limited to the amount paid by claims for analyses Ab claims, including those for negligence arms any other compensors whather hemoty her unless made in writing and received by Cardinal within thirty (90) days effer completion of the applicable environ. In no event shall Candinal be liable for incidental or consequential damages, including though white the properties of parties of profits incurred by claims, including affiliation or symptoms, later of case of parties from editional, its subsidianted affiliation or suppose a nining out of or related to the performance of services resounder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 678-7001 . 2111 BEECHWOOD . ABILENE, TX 79803

PHONE (605) 399-2326 . 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

CIT

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
H9191-29	BH 6, 15'	64
Quality Control		1020
True Value QC		1000
% Recovery		102
Relative Percent	Difference	4.9

METHOD: Standard Methods

4500-CIB

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

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Date

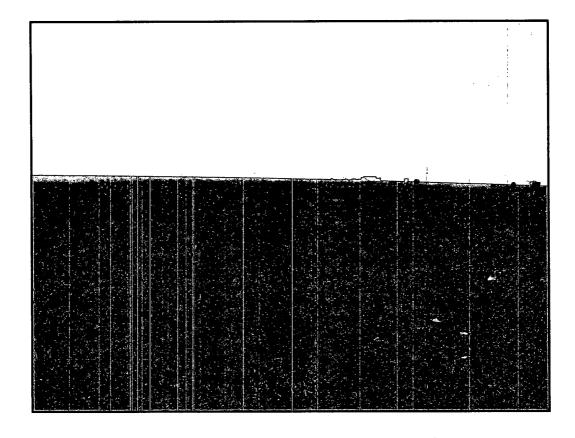
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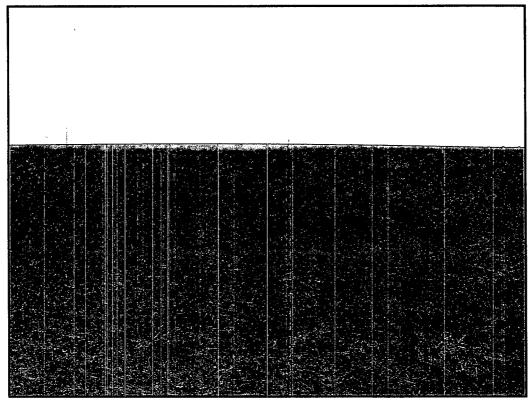
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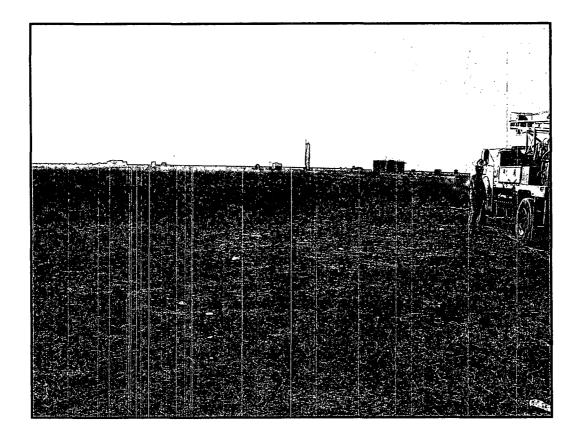
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**Appendix C Site Photos** 

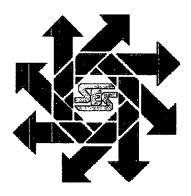






# Americo Energy Denton #1 SWD Mainline Work Plan Unit J, Section 11, Township 15S, Range 37E Lea County, New Mexico

**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.arnold@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 ½ to ¾ 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<sup>-</sup>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:

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

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

ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCo₃/L)
MW1	74	64	11	1.55	754	228

D	CI	SO <sub>4</sub>	CO₃	HCO₃	pH	TD\$
	(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

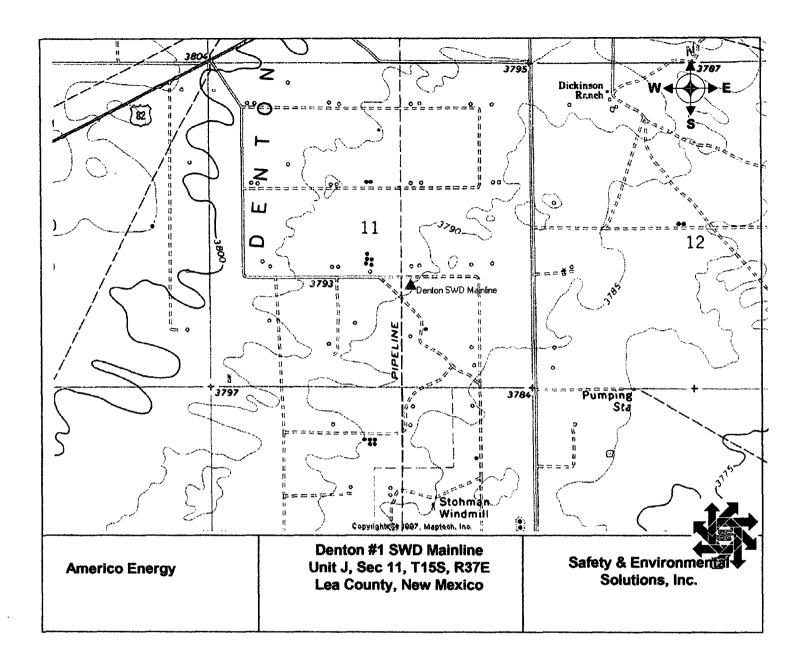
Figure 2. - Site Plan

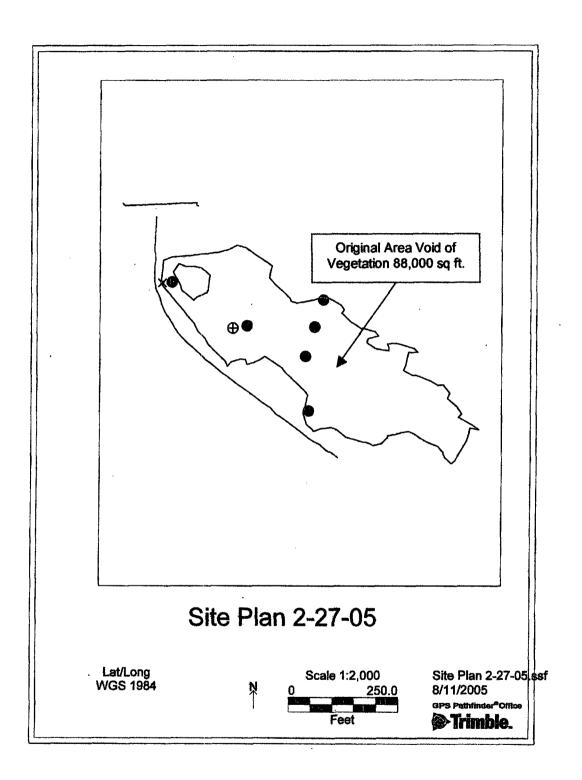
Appendix A - Grid & Analysis of Site

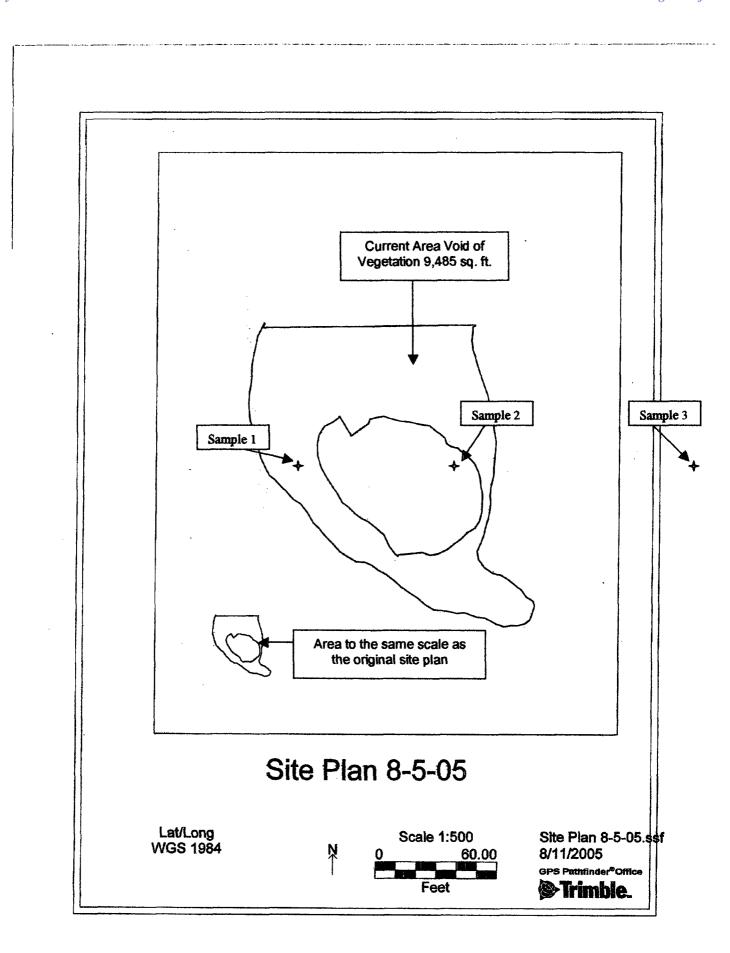
Appendix B - Analytical Results

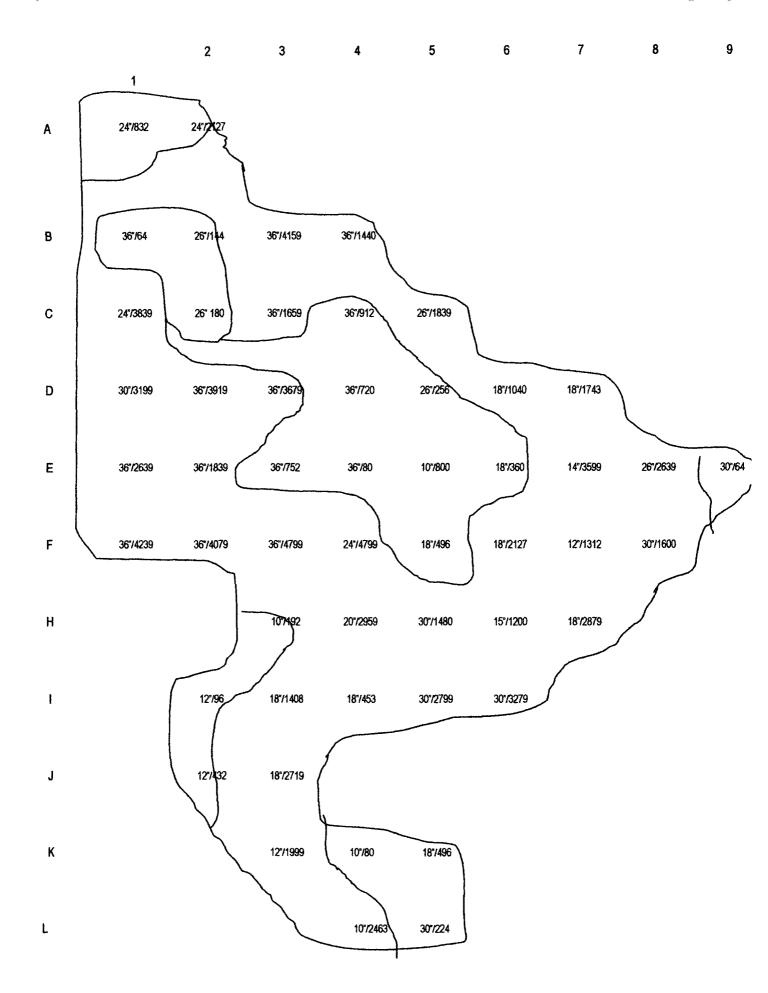
Appendix C - Site Photos

Appendix D - C-141









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
А3	18	180		E6	18		360
А3	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	
<b>B</b> 3	18	112		F1	24	312	
<b>B</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
<b>C</b> 3	18	<112		F7	12		1,312
<b>C</b> 3	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	
- <del></del>				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			1	
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
				J2	12		432
<b>E</b> 1	12	156		J3	18		2,719
E1	24	1,888		КЗ	12		1,999
E1	36		2,639	K4	10		80
E2	18	<112		K5	18		496
E2	36		1,839		1		1
E3	18	132		L4	10		2,463
E3	36		752	L5	18	<112	2,700
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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: 06/22/05 Reporting Date: 06/23/05 Project Number: AME-04-001

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

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)

ANALYSIS DATE	06/23/05	06/23/05	06/23/05	06/23/05
H9863-1 MW 1	<0.002	<0.002	<0.002	<0.006
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

Date

PLEASE NOTE: Listility and Damages. Cardinal's risblity and client's exclusive remark for any claim arising, whether based in contract or tort, shall be fine-ed to the amount paid by exent for any claim arising and received by Cardinal within thirty (30) days after completion of the applicable service. In this based are represented to the incidental or consequential damages, including, without finitiation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, afficiation or acconscient arising run of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stanted reasons or commission.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (605) 393-2376 • 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-Alkatinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:	06/23/05	06/23/05	06/23/05	06/23/05	06/23/05	06/23/05
H9883-1 MW 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		NR
% Recovery	NR	102	92.0	99.2	93.6	NR
Relative Percent Difference	NR	12.0	0	0.0	0.7	NR
METHODS:		**	3500-Mg E	8049		310.1
	Ci <sup>-</sup>	SO₄	CO <sub>3</sub>	HÇO₃	рH	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.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
	1 b					·
Quality Control	1020	50.92	NR	985	7.00	NR
True Value QC	1000	50.00	NR	1000	7.00	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

Chemist

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PLEASE NOTE: Liability and Careages. Cardinal's liability and clonds inclusive remody for any claim arising, whatere cared in contract or tors, shall be limited to the amount paid by client for analysis all dains, including trosp for negligence and any other cause whatever shall be deemed waived unities made in writing and received by Cardinal within thinty (3D) days after considering all the applicability and considering the lability of the incidental or consequential damages, including, without limitation, business interruptions, lies of use, or loss of profile incurred by client, its subaddining, attitudes or successors arising cut 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 ulliances.



PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 78603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88246

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

LAR NUMBER

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

Cl<sup>--</sup> (mg/Kg)

DAD HOMOCIA	Craffi LL 15	(
H9883-2	1-20' E. OF PIPELINE	16395
H9883-3	2-100' E. OF PIPELINE	64
H9883-4*	3-200' E. OF PIPELINE	544
	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU	
Quality Control		1020
True Value QC		1000
% Recovery		102
Relative Percent	Difference	1.0

SAMPLE ID

METHOD: Standard Methods

4500-CIB

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

"Matrix interference (color) observed.

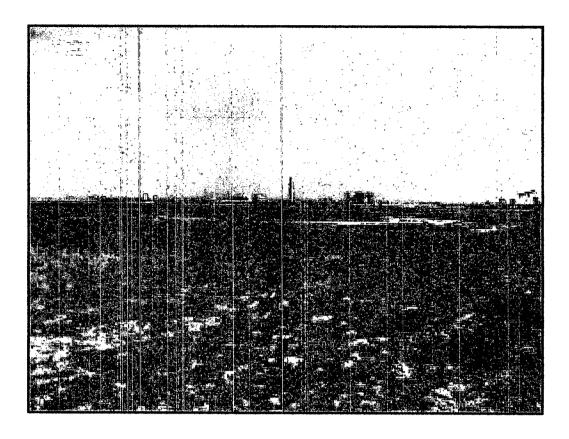
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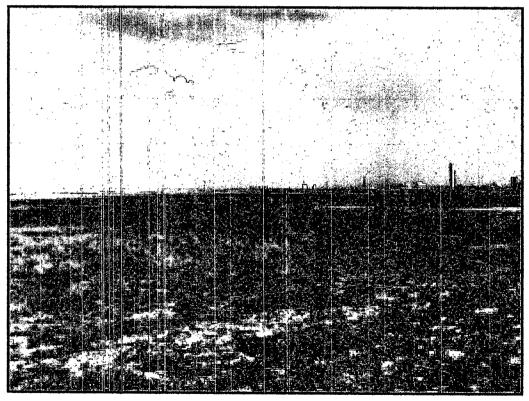
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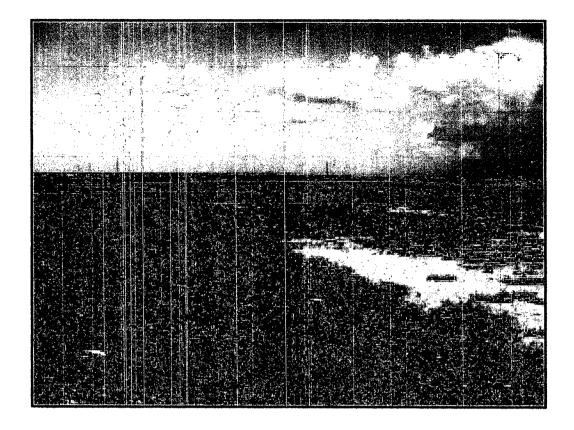
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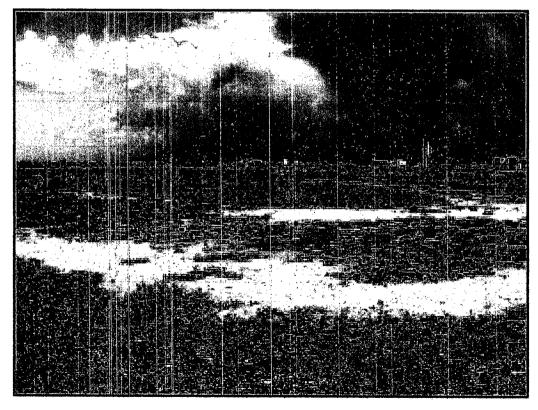
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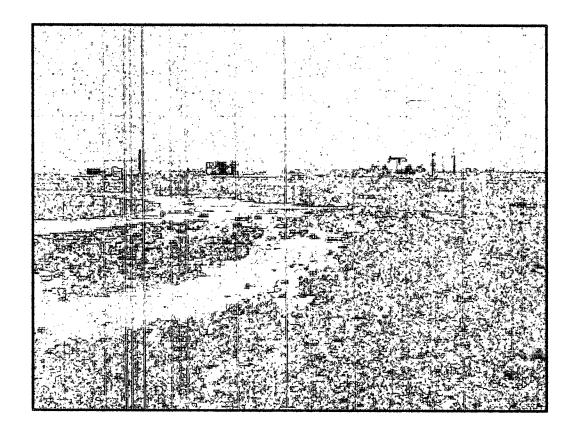
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Signature Stophics B. Shirt Approved by District Supervisors:  Frinted Nature: Stophics B. Shirt Approved Desc. Expiration Dates:  Securit Address: Spirets Gen B. Maradell. Committees of Approved:  Attached Dates: 8/5/04 Phone: 441-0924	Declarat, state, or loc	en de la la la la la la la la la la la la la	Militions.	<u> </u>	<del></del>	OT CONS	TOWATTON	DIVIER	N	
Printed Name: Staphland B. Shirth Approved by District Supervisor:  Title: Merchant Phonyless Market Lep : Approved Date: Expiration Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Attached Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Attached Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:  Sensil Address: Spiret Stand Burneyles. Committees of Approved Date:	Stemmen	X2 3		· 	1.		TAPEASON I		in.	
Time Merricular Phayles Market Lep; Approved Date: Stephenton Date:  Sensil Address: Springles State County Conditions of Approved: Attached				-	Anamoved by D	istrict Suberduse		•	•	
Small Address: SMUTH'S SEN (SS) MOT MANALL . COM Conditions of Approval  Attached   Phone: \$15 04 Phone: \$41-0924	Printed Name:	TEPHEN S	11/4/17	74			·			
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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

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

Action 204009

#### **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 Date
amaxwel	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