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

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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,

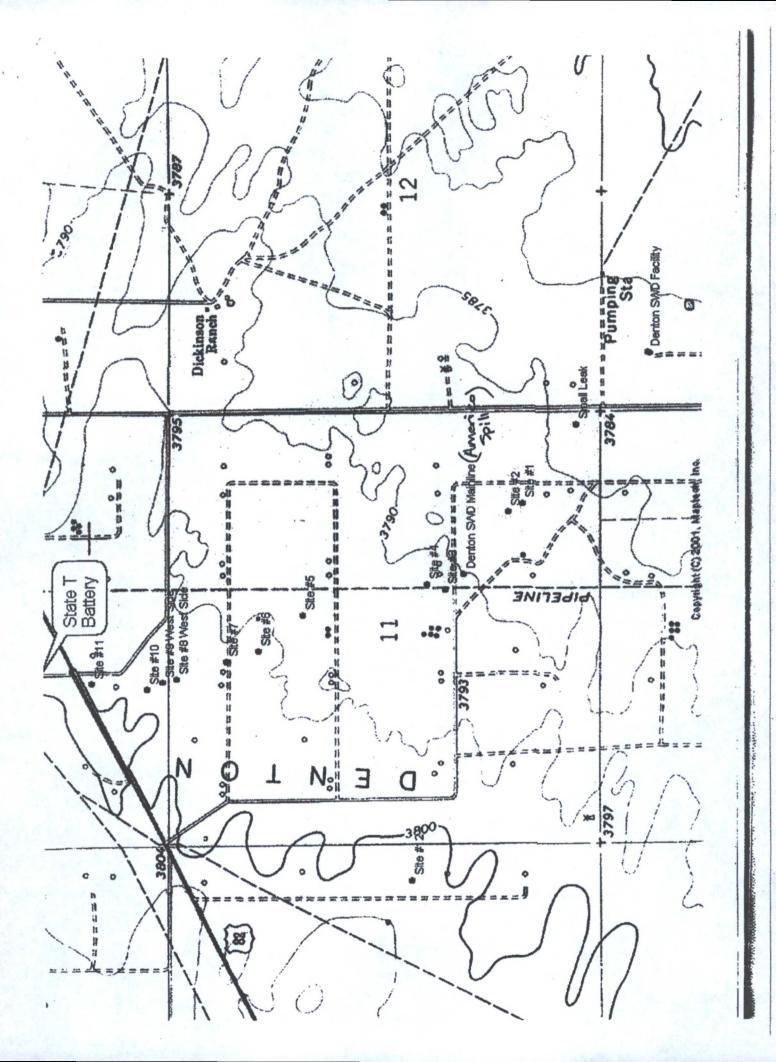
I caught Larry Johnson on his cell a little earlier today and he said he was going to be out for at least a month with some shoulder surgery. I told him Fasken will be submitting a work plan to OCD for a risk based corrective action plan to remediate what appear to be 8 historic spill sites at the Denton 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



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

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	1		10 Cont 10		Xylenes
(mg/kg)	(mg/kg)	(ug/kg)	(ug/kg)		(ug/kg)
					N/A
1060	ND			and the second s	ND
975	N/A	N/A			N/A
223	N/A	N/A	N/A		N/A
386	N/A	N/A	N/A	N/A	N/A
14.7	N/A	N/A	N/A	N/A	N/A
10.7	ND	ND	ND	ND	ND
324	N/A	N/A	N/A	N/A	N/A
544	ND	ND	ND	ND	ND
1410	N/A	N/A	N/A	N/A	N/A
2150	N/A	N/A	N/A	N/A	N/A
2150	N/A	N/A	N/A	N/A	N/A
1220	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A
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Site 2: Lab-Project # 440196

Sample Point	Chloride	TPH	Benzene	Toluene	Ethyl	Xylenes
in the 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

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	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

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	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

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

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

Main Line Leak South east of Legacy battery July 2004

Americo Energy

Lea County, New Mexico

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

2

Denton SWD Main Battery Spile Area Southeast of Boty March 2007

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

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			· · · ·
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			u (Ve es * andares d'Al Villand Vill
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

HOBBS OCD

MAY 0 9 2011

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 immyc@forl.com.

Yours truly,

ailen

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:-	· telefinite it con	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	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:	Carl States	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

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

To: Geoff Leking

Company: NMOCD - Hobbs

Date: May 2, 2011

Phone #: (575) 393-6161

Fax #: (575) 393-0720

Number of Pages (including cover):

Sent By: Jimmy D. Carlile Regulatory Affairs Coordinator

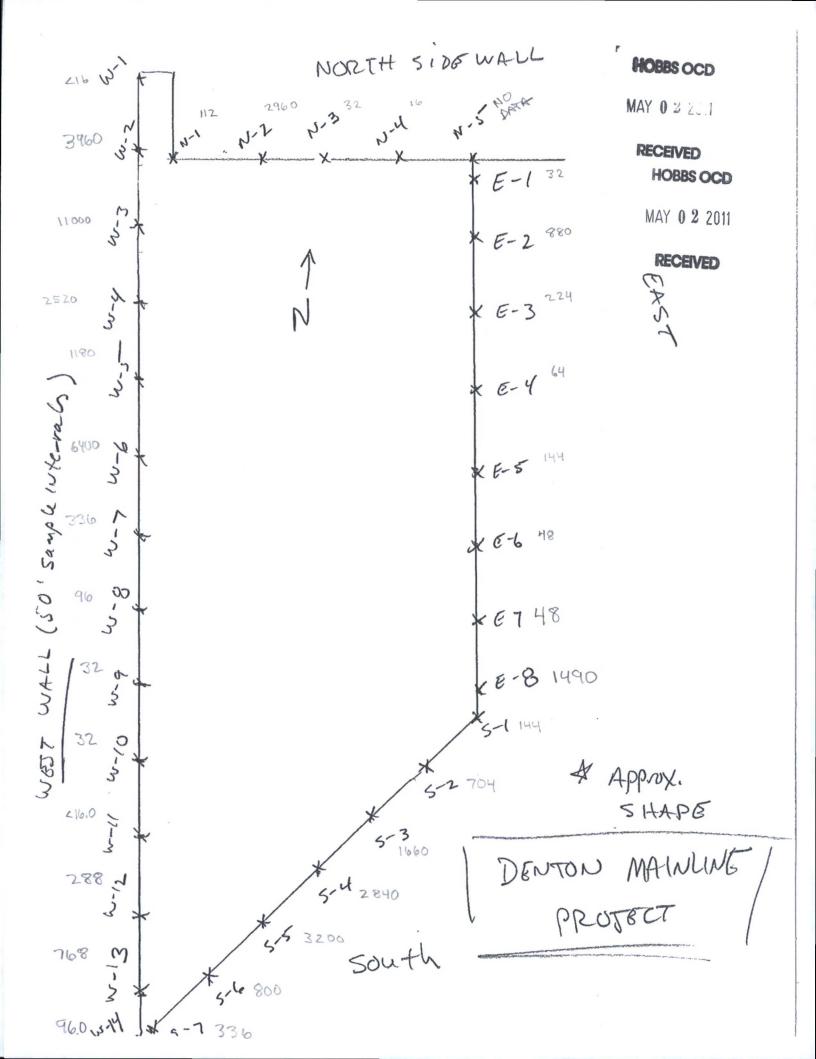
PLEASE NOTE: The information contained in this facsimile message may be PRIVILEGED AND CONFIDENTIAL, and is intended only for the use of the individual named above and others who have been specifically authorized to receive it. If you are not the intended recipient, you are hereby notified that any dissemination, 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.

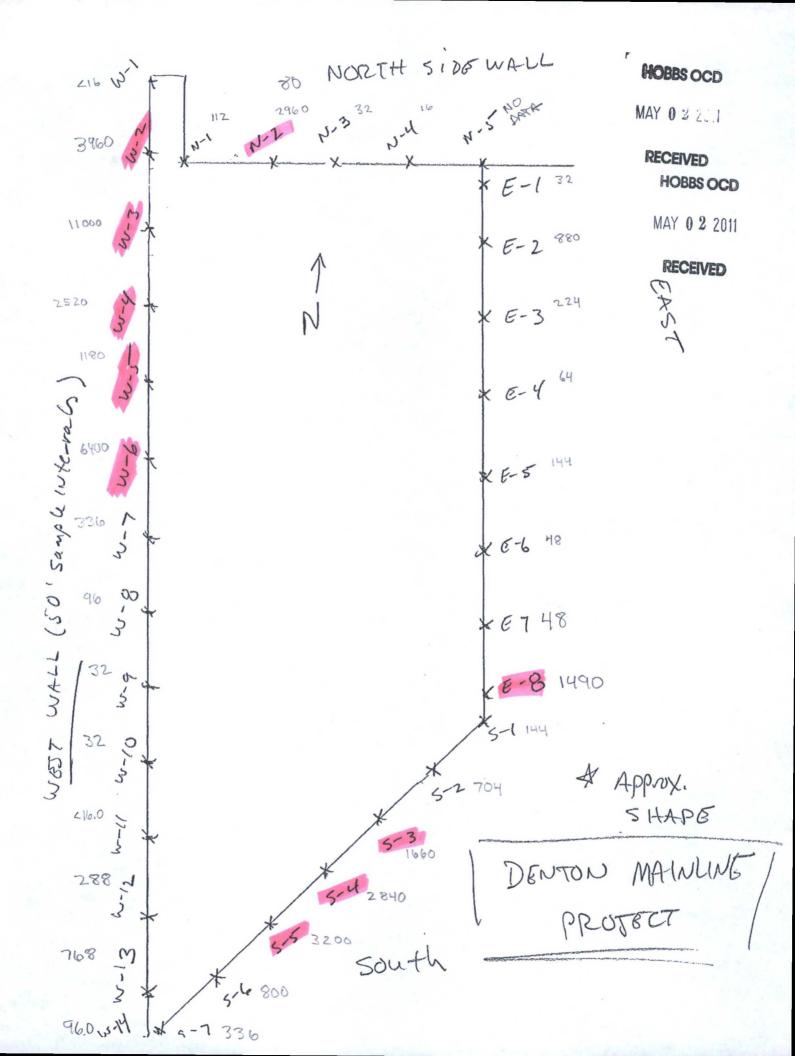
Geoff,

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

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HOBBS OCD

APR 29 2011



PHONE (575) 393-2326 ° 101 E. MARCH VEDBS, 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-B	mg,	kg	Analyze	d 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	e, SM4500CI-B	mg/	kg	Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chlorid	e	2960	16.0	04/26/2011	ND	416	104	400	3.77	

Sample ID: N - 3 (H100823-03)

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	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	

Cardinal Laboratories

*=Accredited Analyte

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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, SM4500CI-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	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	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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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 - 6 (H100823-10)

Chloride, SM4500Cl-B	mg,	kg	Analyze	d 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	Analyze	d 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, SM4500Cl-B	Analyze	Analyzed By: HM							
Analyte	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(H100823-13)
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Chloride, SM4500CI-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	

Sample ID: S - 2 (H100823-14)

Chloride, SM4500CI-B	nloride, 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. 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: S - 3 (H100823-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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, SM4500Cl-B	Analyzed 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	Analyze	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	/kg	Analyzed By: HM						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. 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: W - 1 (H100823-20)

2

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, SM4500Cl-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	(H100823-23)
------------------	--------------

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 (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



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, SM4500CI-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	

Chloride, SM4500Cl-B	mg/l	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/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier

04/26/2011

Cardinal Laboratories

Chloride

*=Accredited Analyte

0.00

400

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ND

432

108

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

32.0

16.0



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, SM4500Cl-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, SM4500CI-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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by 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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 12 of 13



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Project Manager:	mike Stubble I wid		P.O.#:			
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Page 13 of 13

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APR 29 2011

PHONE (575) 393-23 REGENEE LAND . 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



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		

Sample ID: N - 2 (H100880-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM	112		1		14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
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	

Sample ID: E - 8 (H100880-02)

Chloride, SM4500CI-B	mg/kg	Analyzed By: HM		and the second		1.5
Analyte	Result Reporting	Limit Analyzed Method	Blank BS % Recovery	True Value QC	RPD Qualifie	er
Chloride	80.0 16.0	04/28/2011 ND	432 108	400	0.00	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by 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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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