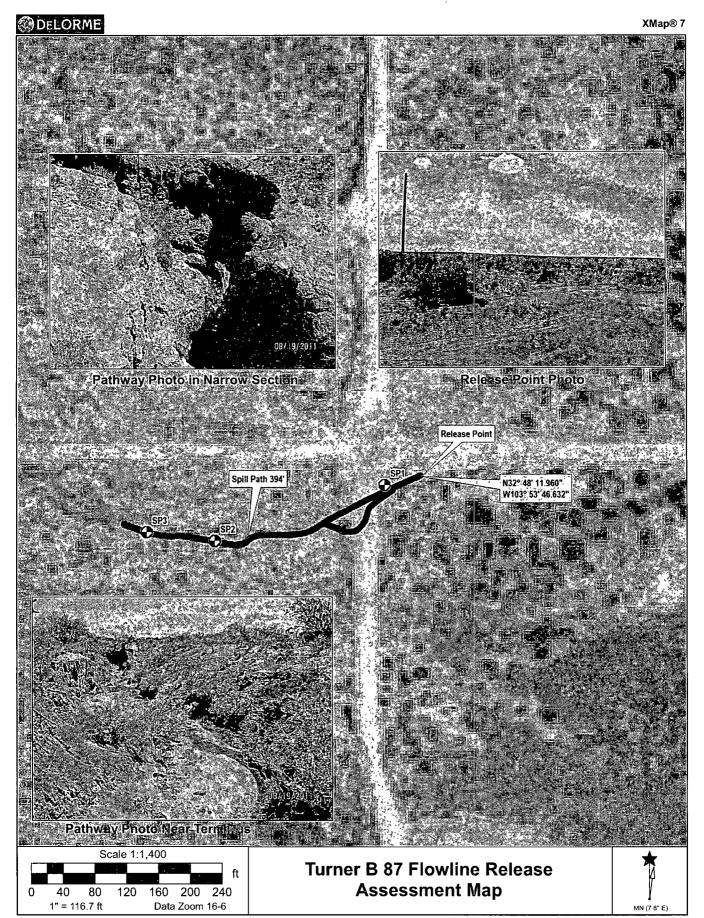
Corrective Action Plan

Date:	August 24, 2011
Client:	LINN Energy
Project:	Turner B 87 Flowline Release
Project Number:	253-2939-000
Contaminants:	Chlorides & Hydrocarbons

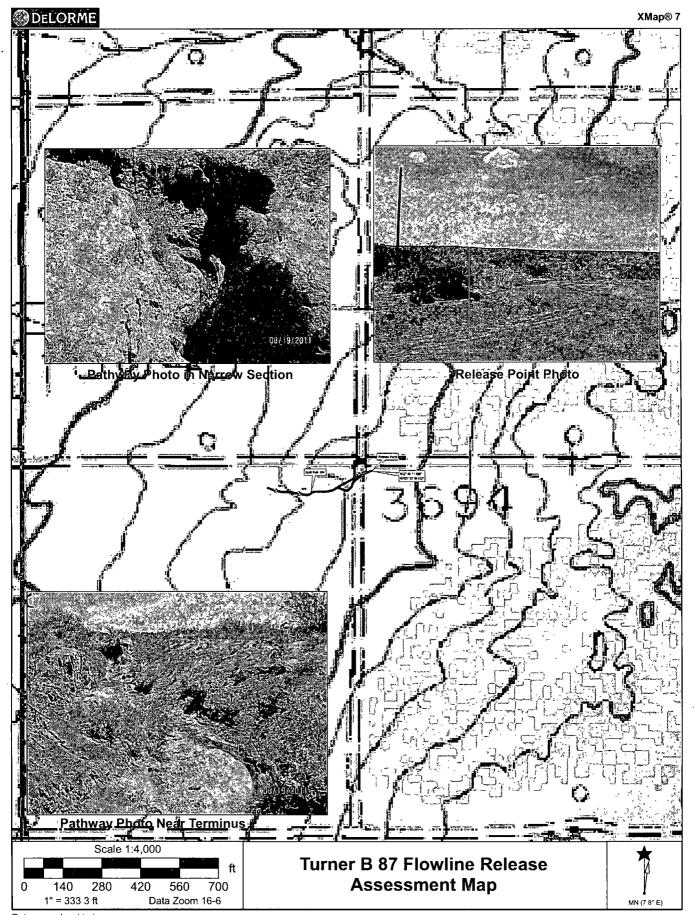
- 1. Remove surface staining from overspray at the release point.
- 2. Excavate primary pathway from the release point through the area of SP1 to where the drainage feature deepens until chlorides are less than 1,000 mg/kg (1-2'). Verify with laboratory analysis for Chlorides.
- 3. This area is the deeper section of the drainage feature. Observed staining area is 6 to 12 inches but is located at the depth of the feature is 6-7 feet. In order to preserve as much of the drainage feature it is proposed to irrigate this section after the completion of items 1,2, & 4. The open area at SP3 will be used to collect any surface water from irrigation. It should be noted that the samples collected at SP2 were based upon finding a sampling point that would represent a worse case basis for this section. The sampling site was directly up-gradient of an area of the drainage feature that had sloughed off creating a small blockage allowing liquids to pool in this area. The remainder of the feature has similar appearance to SP3.

A small amount of surfactant with dissolved calcium sulfate will be used with freshwater as the irrigant. This should aid is removing the hydrocarbons and allowing the salts to migrate vertically from the soils in this section. Samples will be collected and analyzed for TPH and Chlorides to ensure that the first 1-2 foot interval of the section is properly treated.

- 4. Excavate the primary pathway from a point near SP2 through surface staining past SP3 (.5-1ft vertical). Verify with laboratory analysis for Chlorides.
- 5. Backfill excavated areas to original grade maintaining the established drainage pathway. Place rip-rap material at the headway the deeper section of the drainage to minimize erosion control.
- 6. Final closure report will be prepared and submitted once completed.



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August 23, 2011

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: TURNER B 87 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/19/11 18:45.

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.

Celeg & 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



ETECH Environmental & Safety Solutions, Inc. FRED HOLMES

P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

08/19/2011

Sampling Date:

08/19/2011

Reported:

08/23/2011

Sampling Type:

Soil

Project Name:

TURNER B 87 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

253-2937-000

Project Location:

EDDY CO. NM

Sample Received By:

Aaron Berry

Sample ID: SP 1 0-1' (H101766-01)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	08/22/2011	ND	2.03	101	2.00	4.76	
Toluene*	0.991	0.200	08/22/2011	ND	1.95	97.7	2.00	5.55	
Ethylbenzene*	2.90	0.200	08/22/2011	ND	1.99	99.6	2.00	6.29	
Total Xylenes*	6.66	0.600	08/22/2011	ND	6.02	100	6.00	6.05	
Surrogate 4-Bromofluorobenzene (PIL	149	% 70-130)		,				
TPH 8015M	mg,	kg	Analyze	d By: ab	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	293	100	08/23/2011	ND	194	97.1	200	5.39	
DRO >C10-C28	2700	100	08/23/2011	ND	180	90.0	200	1.89	
Surrogate 1-Chlorooctane	119	% 70-130)						
Surrogate 1-Chlorooctadecane	121	% 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, 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 thiny (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 subsidiances, affiliates or successors anising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celeg D. Keine



ETECH Environmental & Safety Solutions, Inc. FRED HOLMES

(432) 563-2213

P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

08/19/2011

Reported: 08/23/2011

Project Name: **TURNER B 87 FLOWLINE** Project Number: 253-2937-000

Project Location: EDDY CO. NM Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Aaron Berry

08/19/2011

Sample ID: SP 2 0-1' (H101766-06)

Received:

BTEX 8021B	mg/	/kg	Analyze	d By: CMS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.17	0.500	08/22/2011	ND	2.03	101	2.00	4.76	
Toluene*	31.4	0.500	08/22/2011	ND	1.95	97.7	2.00	5.55	
Ethylbenzene*	31.7	0.500	08/22/2011	ND	1.99	99.6	2.00	6.29	
Total Xylenes*	56.4	1.50	08/22/2011	ND	6.02	100	6.00	6.05	
Surrogate 4-Biomofluorobenzene (PIL	144	% 70-130)		-				
TPH 8015M	mg,	/kg	Analyze	d By: ab					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3680	100	08/23/2011	ND	194	97.1	200	5.39	
DRO >C10-C28	13400	100	08/23/2011	ND	180	90.0	200	1.89	
Surrogate 1-Chlorooctane	135	% 70-130)						
Surrogate 1-Chlorooctadecane	112	% 70-130)						

*=Accredited Analyte Cardinal Laboratories

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Celeg to Keens



ETECH Environmental & Safety Solutions, Inc. FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

08/19/2011

Sampling Date:

08/19/2011

Reported:

08/23/2011

Sampling Type:

Soil

Project Name:

TURNER B 87 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

253-2937-000

Project Location:

EDDY CO. NM

Sample Received By:

Aaron Berry

Sample ID: SP 3 0-1' (H101766-11)

BTEX 8021B	mg/	kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.053	0.050	08/22/2011	ND	2.03	101	2.00	4.76	
Toluene*	0.118	0.050	08/22/2011	ND	1.95	97.7	2.00	5.55	
Ethylbenzene*	0.082	0.050	08/22/2011	ND	1.99	99.6	2.00	6.29	
Total Xylenes*	0.155	0.150	08/22/2011	ND	6.02	100	6.00	6.05	
Surrogate 4-Bromofluorobenzene (PIL	107 9	% 70-130)						
TPH 8015M	mg/	kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.0	10.0	08/23/2011	ND	194	97.1	200	5.39	
DRO >C10-C28	342	10.0	08/23/2011	ND	180	90.0	200	1.89	
Surrogate 1-Chlorooctane	103 9	% 70-130)						
Surrogate 1-Chlorooctadecane	113 9	% 70-130)						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE Liability and Camages Cardinal's liability and client's exclusive remedy for any daim ansing, 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 waved unless made in writing and received by Cardinal, within thirty (30) days after completion of the applicable services hereunder by Cardinal, regardless of whether such claims 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.

Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

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Celey D. Keene, Lab Director/Quality Manager

Celeg & Keine

RDINAL LABORATORIES 101 East Mariand, Hobbs, NM, 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUES:

Page ______or ______

	(505) 393-2326,FAX (505) 393-2	7.0							Section 1					
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Project Manage	r: Fred Holmes		P.O. #:		ľ						. 1:			
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City: Midland	State: TX	Zip:	Attin:				ŀ				,			
	-563-2200 Fax #:	432-563-2213	Address:									,		
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RDINAL LABORATORIES 101. East Marland, Hobbs, NM, 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUES.

Page 2 of 2

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August 23, 2011

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: TURNER B 87 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 08/19/11 18:45.

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.

Celez 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



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

08/19/2011

Sampling Date:

08/19/2011

Reported:

08/23/2011

Sampling Type:

Soil

Project Name:

TURNER B 87 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

253-2937-000

Sample Received By:

Aaron Berry

Project Location:

Analyte

Analyte

EDDY CO. NM

Sample ID: SP 1 0-1' (H101766-01)

Chloride,	SM4500CI-B
-----------	------------

Analyzed By: HM

% Recovery

True Value OC

Chloride

Result 6800

08/22/2011

Analyzed

ND

Method Blank

448

BS

112

400

Oualifier

Sample ID: SP 1 1-2' (H101766-02)

Chloride, SM4500Cl-B

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: HM

% Recovery

RPD

0.00

0.00

Chloride

6700

192

Result

240

Result

08/22/2011

Analyzed

Method Blank ND

BS 448

BS

448

True Value QC 112 400

RPD Qualifier

Sample ID: SP 1 2-3' (H101766-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte Result Analyzed

08/22/2011

Method Blank

ND

ND

% Recovery

112

112

True Value QC 400

400

RPD

0.00

Qualifier

Chloride

Chloride

Sample ID: SP 1 3-4' (H101766-04)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: HM

08/22/2011

Analyzed Method Blank

448

BS

% Recovery True Value OC RPD

0.00

Qualifier

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 sived 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 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 Laboratones.

Celen Direce

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

(432) 563-2213 Fax To:

Received:

08/19/2011

Sampling Date:

08/19/2011

Reported:

Soil

08/23/2011

Sampling Type:

Project Name:

TURNER B 87 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

253-2937-000

Sample Received By:

Aaron Berry

Project Location:

EDDY CO. NM

Sample ID: SP 1 4-5' (H101766-05)

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	08/22/2011	ND	448	112	400	0.00	
Sample ID: SP 2 0-1' (H10	01766-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	. Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	08/22/2011	ND	448	112	400	0.00	
Sample ID: SP 2 1-2' (H10 Chloride, SM4500Cl-B)1766-07) mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	08/22/2011	ND	448	112	400	0.00	
Sample ID: SP 2 2-3' (H10	01766-08)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/22/2011	ND	448	112	400	0.00	
	01766-09)								
Sample ID: SP 2 3-4' (H10			4 m a luma	d By: HM					
•	mg	/kg	Anaiyze	u 57. 1111					
Chloride, SM4500Cl-B Analyte	mg Result	/kg Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celego Keens



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

(432) 563-2213 Fax To:

Received: Reported: 08/19/2011

08/23/2011

Project Name: Project Number: TURNER B 87 FLOWLINE

Project Location:

253-2937-000 EDDY CO. NM

Sampling Date:

08/19/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Aaron Berry

Sample ID: SP 2 4-5' (H101766-10)

Chloride,	SM4500CI-B

mg/kg

Analyzed By: HM

Analyte Result Reporting Limit 112

16.0

Reporting Limit

16.0

08/22/2011

Analyzed

Analyzed

08/22/2011

Method Blank ND

BS 448 % Recovery 112

True Value QC 400

RPD

Qualifier 0.00

Sample ID: SP 3 0-1' (H101766-11)

Chloride,	SM4500CI-B	ı

mg/kg

Result

3280

Analyzed By: HM

Method Blank BS

448

448

% Recovery

112

112

True Value QC

400

400

RPD

0.00

Qualifier

Chloride

Chloride

Chloride

Sample ID: SP 3 1-2' (H101766-12)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

Analyte

mg/	kg

Analyzed By: HM

Result Reporting Limit Analyzed 256 16.0 08/22/2011 Method Blank ND

ND

ND

ND

BS

True Value OC % Recovery

RPD

0.00

Qualifier

Sample ID: SP 3 2-3' (H101766-13)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: HM

Analyzed 08/22/2011

Analyzed

08/22/2011

Method Blank BS 448 % Recovery

True Value QC

RPD 0.00

Qualifier

Chloride

Chloride

Sample ID: SP 3 3-4' (H101766-14)

Chloride, SM4500Cl-B

Result

128

Result

112

Analyzed By: HM

Method Blank BS

448

112

% Recovery

112

True Value QC

400

400

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and within thirty (30) days after completion of the applicable service including, without limitation, business inferruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such This report shall not be reproduced except in full with written approval of Cardinal Laboratories

Celeg & treene

Celey D. Keene, Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES
P. O. BOX 8469
MIDLAND TX, 79708

Fax To: (432) 563-2213

Received:

08/19/2011

Sampling Date:

08/19/2011

Reported:

08/23/2011

Sampling Type:

Soil

Project Name:

TURNER B 87 FLOWLINE

Sampling Condition:

Cool & Intact

Project Number:

253-2937-000

Sample Received By:

Aaron Berry

Project Location:

EDDY CO. NM

Sample ID: SP 3 4-5' (H101766-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/22/2011	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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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RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUES.

Page of Z

	(505) 393-2326/Fax-(50																	
Company Name: Etech Env. & Safety Solutions, Inc.				BILL TO			ANALYSIS REQUEST										ľ	
Próject Manager: Fred Holmes				P.O. #:								ľ		,				
Address: P O. Box 8469				Company:														
Cîty: Midland State: TX Zip: 79708				8 Attn:														
Phone #: 432	management and a second control of the secon	#: 432	-563-2213	Address:														
Project.# 333		ect Owner:	nacional de la constitución de l	City:				`								`		8 5 8
Project Name:	122000 37	15-2016 160		State: Zip:.														1
Project Location	r Erdy)	Phone #:														
Sampler Name:	French S			Fax #:				,										-
Lab I.D.	Sample I.D.	(G)RAB OR(C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SUDGE	ACID/BASE IN MINISTEL / COOL IN MINISTEL / COOL IN MINISTEL / COOL IN MINISTER / COOL IN	SAMPL	NG - 	ТРН (8015)	TPH Ext (TX 1005)	Chlorides	STEX	£		,				1	American (Albertana o comment o management o management of the comment of the com
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	- Bus. Other: #	3	Cool Intact Zi Yes Yes	s The state of the	iais).								•)
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RDINAL LABORATORIES 101.East Marland, Hobbs, NM 88240 (505) 393-2326.Eax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUES.

Page 2 of 2

Company Name	Etech Env. & Safety Solutions, I	BILL TO ANALYSIS REQUEST												
Project Manager	Fred Holmes	P.O. #:				· [ľ			1				
Åddress: P.O.	Box 8469	Company:				l			1			1		
City: Midland	State: TX	Attn:			1	I						1		
Phone #: 432-	563-2200. Fax #:	Address:			1	l	ĺ							
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