Corrective Action Plan

Date:	August 24, 2011	
Client:	LINN Energy	
Project:	Turner B 80 Flowline Release	
Project Number:	253-2938-000	
Contaminants :	Chlorides & Hydrocarbons	

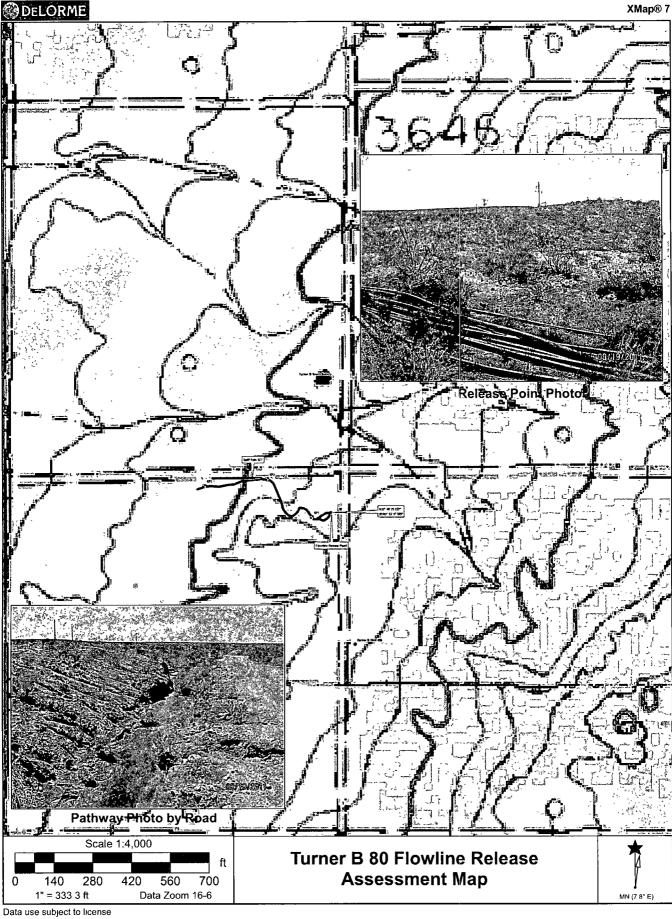
- 1. Remove surface staining from overspray at the release point.
- 2. Excavate primary pathway from the release point to the area of SP1 until chlorides are less than 1,000 mg/kg (Estimated to be 1 foot at release point to 5+ feet at SP1). Verify with laboratory analysis for Chlorides. TPH may be added to analytical clearance pending the receipt of pending analytical results.
- 3. Excavate primary pathway from area SP1 through SP2 to the area where the drainage feature turns west and parallels the lease road (1-1.5 ft vertical). Verify with laboratory analysis for Chlorides. TPH may be added to analytical clearance pending the receipt of pending analytical results.
- 4. Excavate the primary pathway from where the drainage feature turns west and parallels the lease road through surface staining past SP3 (.5-1ft vertical). Verify with laboratory analysis for Chlorides.
- 5. Backfill excavated area to original grade maintaining the established drainage pathway. Place rip-rap material where the drainage feature turns west and parallels the lease road to minimize erosion control.
- 6. Final closure report will be prepared and submitted once completed.

Sample Collection & Monitoring Results Form

Date: 8/19/2011 Client: LINN Energy		-	P	roject:	Tune	r B 80	Flowlin	ie Rele	ase				
Project Manager: Fred Holmes			Proje	ct No.:	253-2	938-0	00			-			
Technician((s):								_				
Suspected	Contamina	ant(s):	Chlorides Hydro	carbo	าร		_						
Instrument(s) Used:		<u>PID</u>				-						
Seria	al No.:		07-01868				_						
Calibration	Date:		8/19/2011				-					-	
							Rea	adings/F	Results				
							BTEX	(mg/kg)	-	1	TPH (mg/l	kg) I	
Sample Number	Time	Matrix	Description/Reference	QId	Chlorides	Benzene	Toluene	Ethybenzene	Xylene	GRO	DRO	Total	Comments .
SP1 - 0-1'	1415	Soil	red,brn, fine sand, moist, strong odor	254	2160	7.16	37.5	40.3	76.1	3470	15500	18970	Requested next sample interval to be analyzed for BTEX
SP1 - 1-2'		Soil	red,brn, fine sand, moist, slight odor	76	1840								
SP 1 - 2-3'		Soil	red,brn, fine sand with sm wht nodules, moist, faint odor	62	2560								
SP1 - 3-4'		Soil	red,brn, fine sand with sm wht nodules, moist, no odor	108	3120								
SP1 - 4-5'		Soil	red, brn, fine - med sand, no odor	19	4000								
SP2 - 0-1'		Soil	red,brn, fine sand, moist, strong odor	93	2560	<1.00	6.01	16.5	35	1700	11300	13000	Requested next sample interval to be analyzed for BTEX TPH
SP2 - 1-2'		Soil	red,brn, fine sand, moist, slight odor	75	1010								
SP2 - 2-3'		Soil	red,brn, fine sand, moist, no odor	8.4	896								
SP2 - 3-4'		Soil	red,brn, fine sand, moist, no odor	8.5	1090								
SP2 - 4-5'		Soil	red,brn, fine sand, moist, no odor	15	880								
SP3 - 0-1'		Soil	red,brn, fine, silty sand, moist, strong odor	40	416	<0.05	<0.05	<0.05	<0.05	<10	36.4	36.4	
SP3 - 1-2'		Soil	red,brn, fine sand, moist, slight odor	17	32								
SP3 - 2-3'		Soil	red,brn, fine, silty sand, dry, no odor	13	32								
SP3 - 3-4'		Soil	red,brn, fine, silty sand, dry, no odor	26	16							•	
SP3 - 4-5'	1555	Soil	red,brn, fine, silty sand, dry, no odor	40	112								

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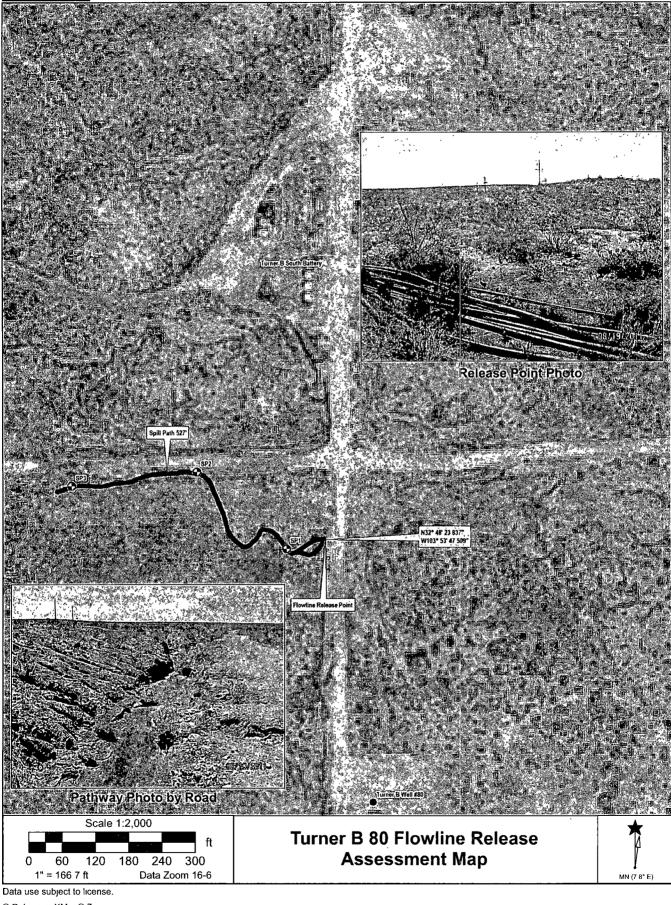
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August 23, 2011

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

RE: TURNER B 80 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 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total 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,

Celey D. Keine

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 80 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	253-2938-000	Sample Received By:	Aaron Berry
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 0-1' (H101765-01)

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*	7.16	1.00	08/22/2011	ND	2.03	101	2.00	4.76	
Toluene*	37.5	1.00	08/22/2011	ND	1.95	97.7	2.00	5.55	
Ethylbenzene*	40.3	1.00	08/22/2011	ND	1.99	99.6	2.00	6.29	
Total Xylenes*	76.1	3.00	08/22/2011	ND	6.02	100	6.00	6.05	
Surrogate 4-Bromofluorobenzene (PIL	131 %	6 70-130							
TPH 8015M	mg/	kg	Analyzed By: ab					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3470	100	08/23/2011	ND	194	97.1	200	5.39	
DRO >C10-C28	15500	100	08/23/2011	ND	180	90.0	200	1.89	
Surrogate 1-Chlorooctane	146 %	6 70-130							<u> </u>
Surrogate 1-Chlorooctadecane	99 3 S	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 7



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Received:	08/19/2011	Sampling Date:	08/19/2011
Reported:	08/23/2011	Sampling Type:	Soil
Project Name:	TURNER B 80 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	253-2938-000	Sample Received By:	Aaron Berry
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 0-1' (H101765-06)

BTEX 8021B	mg/k	g	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/22/2011	ND	2.03	101	2.00	4.76	
Toluene*	6.01	1.00	08/22/2011	ND	1.95	97.7	2.00	5.55	
Ethylbenzene*	16.5	1.00	08/22/2011	ND	1.99	99.6	2.00	6.29	
Total Xylenes*	35.0	3.00	08/22/2011	ND	6.02	100	6.00	6.05	
Surrogate 4-Bromofluorobenzene (PIL	124 %	5 70-130)						
TPH 8015M	mg/l	(g	Analyzed By: ab					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1700	100	08/23/2011	ND	194	97.1	200	5.39	
DRO >C10-C28	11300	100	08/23/2011	ND	180	90.0	200	1,89	
Surrogate 1-Chlorooctane	147 %	5 70-130)						
Surrogate 1-Chlorooctadecane	110 %	5 70-130)						

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Received:	08/19/2011	Sampling Date:	08/19/2011
Reported:	08/23/2011	Sampling Type:	Soil
Project Name:	TURNER B 80 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	253-2938-000	Sample Received By:	Aaron Berry
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 0-1' (H101765-10)

BTEX 8021B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2011	ND	2.03	101	2.00	4.76	
Toluene*	<0.050	0.050	08/22/2011	ND	1.95	97.7	2.00	5.55	
Ethylbenzene*	<0.050	0.050	08/22/2011	ND	1.99	99.6	2.00	6.29	
Total Xylenes*	<0.150	0.150	08/22/2011	ND	6.02	100	6.00	6.05	
Surrogate 4-Bromofluorobenzene (PIL	108 9	% 70-130	•						
TPH 8015M	mg/	kg	Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/23/2011	ND	194	97.1	200	5.39	
DRO >C10-C28	36.4	10.0	08/23/2011	ND	180	90.0	200	1.89	
Surrogate 1-Chlorooctane	946	% 70-130)						
Surrogate 1-Chlorooctadecane	104	% 70-130)						

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Celey D. Keene, Lab Director/Quality Manager

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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 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. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Page _____ of _____

Company Name: Etech Env. & Safety Solutions; Inc.,	BILL TO	ANALYSIS REQUEST
Project Manager: Fred Holmes	P.O. #:	
Address: P.O Box 8469	Company:	
City: Midland State: TX Zip: 79708	Attn:	
Phone #: 432-563-2200 Fax #: 432-563-2213	Address:	
Project #: 7- 3 /// State Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: Edit	Phone #:	
	Fax #:	
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Sampler - UPS - Bus - Other:	(Initials)	

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

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August 23, 2011

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

RE: TURNER B 80 FLOWLINE

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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. Keene

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 80 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	253-2938-000	Sample Received By:	Aaron Berry
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 0-1' (H101765-01)

Chloride, SM4500CI-B	e, SM4500Cl-B mg/kg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC`	RPD	Qualifier
Chloride	2160	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 1 1-2' (H101765-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 1 2-3' (H101765-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 1 3-4' (H101765-04)

Chloride, S	M4500Cl-B	mg/kg		Analyze	d By: HM					
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		3120	16.0	08/22/2011	ND	448	112	400	3.64	

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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 80 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	253-2938-000	Sample Received By:	Aaron Berry
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 4-5' (H101765-05)

Chloride, SM4500Cl-B	OCI-B mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 2 0-1' (H101765-06)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP2 1-2' (H101765-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 2 3-4' (H101765-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 2 4-5' (H101765-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/22/2011	ND	448	112	400	3.64	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



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 80 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	253-2938-000	Sample Received By:	Aaron Berry
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 0-1' (H101765-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 3 1-2' (H101765-11)

Chloride, SM4500Cl-B		/kg	Analyze	d By: HM													
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier								
Chloride	32.0	16.0	08/22/2011	ND	448	112	400	3.64									

Sample ID: SP 3 2-3' (H101765-12)

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	08/22/2011	ND	448	112	400	3.64	

Sample ID: SP 3 3-4' (H101765-13)

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	08/22/2011	ND	448	112	400	0.00	

Sample ID: SP 3 4-5' (H101765-14)

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	08/22/2011	ND	448	112	400	0.00	

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PLEASE NOTE Lability 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 whitspeere shall be deemed waived unless made in writing and received by Cardinal within thirth (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, which under the subscription of the applicable service in no event shall Cardinal be liable for incidental or consequential damages, including whose of vielates to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwase. Results relate only to the amplicable with the approval of Cardinal Laboratories.

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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 80 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	253-2938-000	Sample Received By:	Aaron Berry
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 2-3' (H101765-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/22/2011	ND	448	112	400	0.00	

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*=Accredited Analyte

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Celeg D. Kune

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 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 & 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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City: Midland	State: TX	Zip:	Attn:	· · · · · · · · · · · · · · · · · · ·	· •			· ·				,	1	
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUES

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