

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

Project: Tuner B 80 Flowline Release

Project Manager: Fred Holmes

Project No.: 253-2938-000

Technician(s):

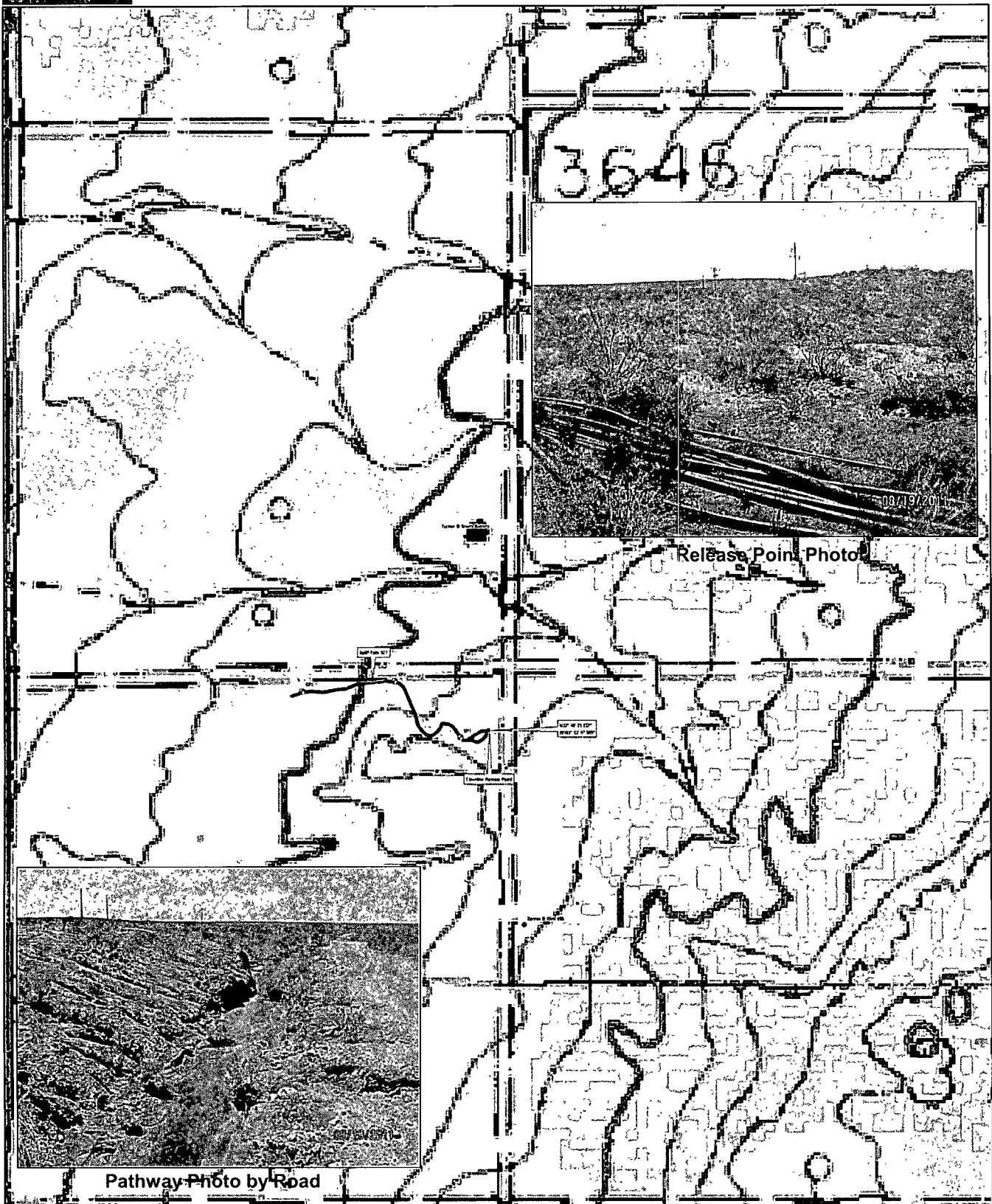
Suspected Contaminant(s): Chlorides Hydrocarbons

Instrument(s) Used: PID

Serial No.: 07-01868

Calibration Date: 8/19/2011

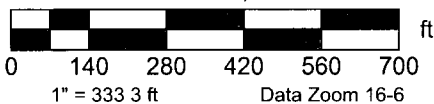
Sample Number	Time	Matrix	Description/Reference	Readings/Results									Comments
				PID	Chlorides	BTEX (mg/kg)				TPH (mg/kg)			
						Benzene	Toluene	Ethylbenzene	Xylene	GRO	DRO	Total	
SP1 - 0-1'	1415	Soil	red,brn, fine sand, moist, strong odor	254	2160	7.16	37.5	40.3	76.1	3470	15500	18970	Requested next sample interval to be analyzed for BTEX TPH
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								



Pathway Photo by Road

Release Point Photo

Scale 1:4,000



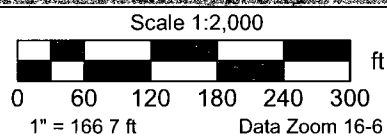
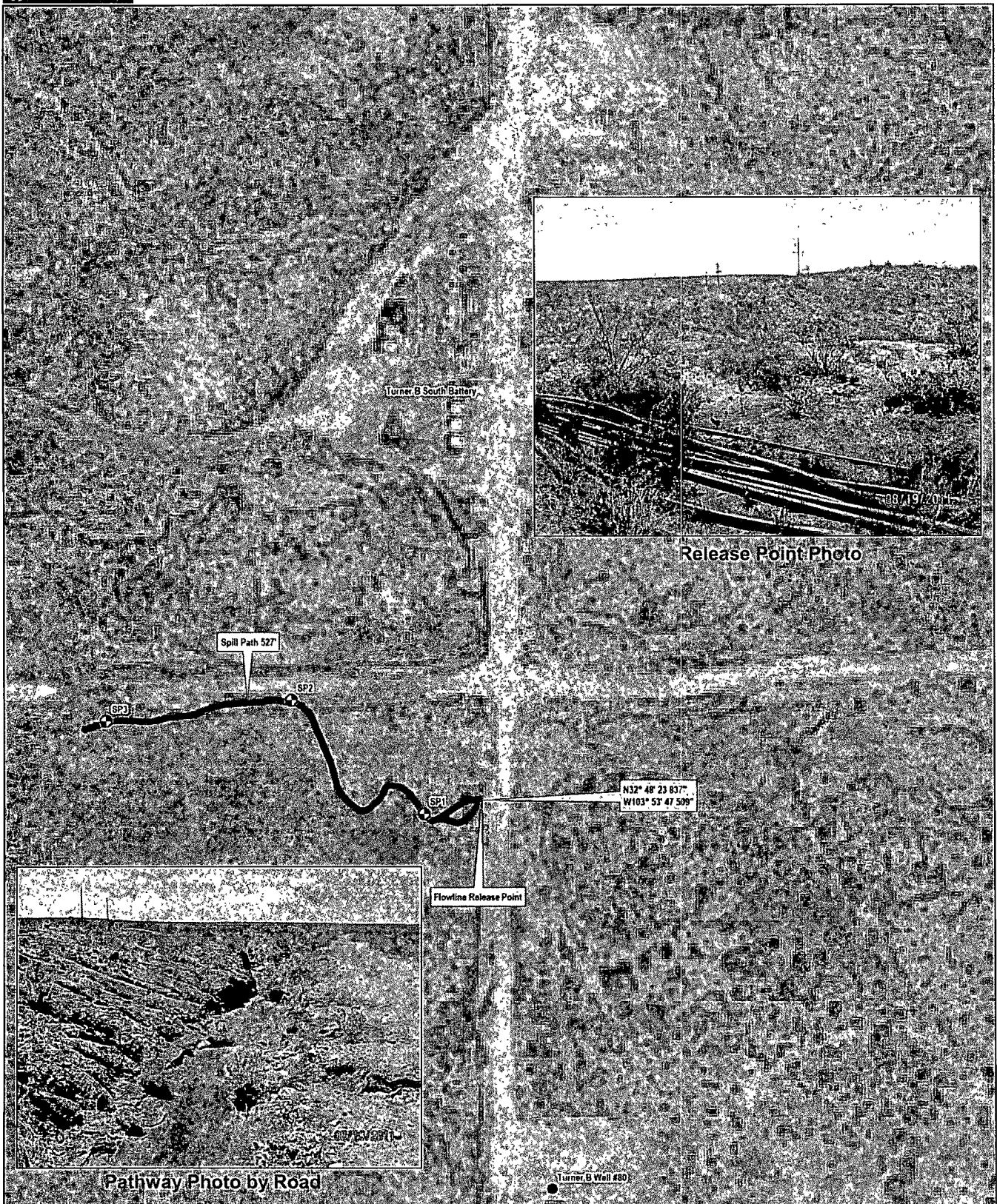
Turner B 80 Flowline Release Assessment Map



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Turner B 80 Flowline Release Assessment Map



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

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 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

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

Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 FRED HOLMES
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

 Received: 08/19/2011
 Reported: 08/23/2011
 Project Name: TURNER B 80 FLOWLINE
 Project Number: 253-2938-000
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Aaron Berry

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

BTX 8021B		mg/kg	Analyzed 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 (PIE) 131 % 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 % 70-130

Surrogate 1-Chlorooctadecane 99.3 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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 Reported: 08/23/2011
 Project Name: TURNER B 80 FLOWLINE
 Project Number: 253-2938-000
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Aaron Berry

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

BTEX 8021B		mg/kg	Analyzed 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 % 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	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	

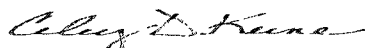
Surrogate 1-Chlorooctane 147 % 70-130

Surrogate 1-Chlorooctadecane 110 % 70-130

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 Received: 08/19/2011
 Reported: 08/23/2011
 Project Name: TURNER B 80 FLOWLINE
 Project Number: 253-2938-000
 Project Location: EDDY COUNTY, NM

 Sampling Date: 08/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Aaron Berry

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

BTX 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 % 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	

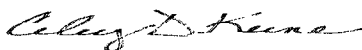
Surrogate 1-Chlorooctane 94.6 % 70-130

Surrogate 1-Chlorooctadecane 104 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

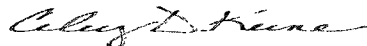
Notes and Definitions

- 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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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Sampler Relinquished: Date: <u>4/10/95</u> Time: <u>1:00</u> Relinquished By: <u>[Signature]</u>		Received By: Date: <u>4/10/95</u> Time: <u>1:00</u> Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <u>NO SAMPLE PREPARED</u> <u>REMARKS:</u> <u>PERIOD ANALYSIS DONE BY [Signature]</u>	
Delivered By: (Circle One) Sampler <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other: _____		Temp. <u>26.35C</u>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
Checked By: (Initials) <u>[Signature]</u>					

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



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

August 23, 2011

FRED HOLMES

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P. O. BOX 8469

MIDLAND, TX 79708

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Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

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

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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. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
FRED HOLMES
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 08/19/2011
Reported: 08/23/2011
Project Name: TURNER B 80 FLOWLINE
Project Number: 253-2938-000
Project Location: EDDY COUNTY, NM

Sampling Date: 08/19/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Aaron Berry

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

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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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 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		mg/kg		Analyzed 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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		

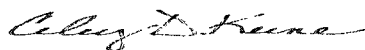
Sample ID: SP 2 4-5' (H101765-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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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 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		Analyzed 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		mg/kg		Analyzed 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		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		

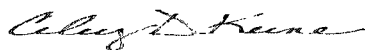
Sample ID: SP 3 4-5' (H101765-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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		Analyzed 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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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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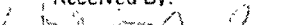

† Cardinal cannot accept verbal changes: Please fax written changes to 575-393-2476.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]

Sampler Relinquished:  Relinquished By: _____ Date: _____ Time: _____		Received By:  Received By: _____ Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: _____ _____ _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other.		Temp.: 35.4	Sample Condition: Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	

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