PPROVED	HOBBS OCD	REVIEWED By Kristen Lynch	at 7:08 am, Aug 18, 2016
Environmental & Sellety Subalitions, Inc.	MAR 31 2014 RECEIVED		diation Summary & ive Action Report
General Information			
This section provides general inform	mation about the ope	erator and the site where the	spill occurred.
Date:March 26, 2014Client:Nearburg Producing			
	2.676446 03.610094	County: Lea	State: NM
Property Owner: N/A State Report No.:			
Release Description and Assess	ment		
The information below is related to		use and Quantity) and the area in	npacted.
Date of Spill: July 30, 2013			
Type of Spill: Oil Produce	ed Water 🛛 Conder	nsate Other (Specify):	
Cause of Spill: Equipment Failur	e 🗌 Valve Failure	Line Rupture Leaking T	ank 🔲 Tank Overfill
Other Contributing Factors or Comm			
	ity Recovered: 0 bbls.		
Method of Recovery: Vacuum Tru OCD Notified: Yes No		and Submitted: X Yes IN	0
Spill Area Impacted: Inside Fire Other (List):	wall On Produc		In Cultivated Land
Total Square Footage Impacted: ~13 Other Comments: The southern secti southern portion to be greater than 7' b	on of the spill was del		Cu. Yds): ~200 tical extent of the
Remediation Activity Summary			
The following summarizes the ac In accordance with the approved cor following levels:			nrough excavation to the
 Benzene: 10 mg/kg BTEX: 50 mg/kg 			

- TPH: 5,000 mg/kg
- Chlorides: 1,000 mg/kg

Corrective action consisted of manually and mechanically excavating impacted areas inside and outside of the tank battery containment area. The impacted area had been divided into 3 areas which are denoted as follows:

- SP1: Area Inside Tank Battery
- SP2: Area Off-Site Directly South of the Tank Battery Containment
- SP3: Terminus of the Spill Area

The impacted area inside the tank battery (SP1) was excavated to a maximum depth of 4 feet in the southern portion of the tank battery pad. Area SP2, directly south of the tank battery containment was excavated to a depth of 4.5 feet. The remaining area (SP3) was excavated to a depth of 7 feet. This area was noted to be a low area where a

Nearburg Producing Company Pennzoil Fed #2 Remediation Summary (Continued)

large portion of the release pooled. There was visible impacted soil in the bottom of the excavation. However the stability of the soils was insufficient to allow further excavation. Area SP3 was hand augered to a depth of 20' where field screening indicated the hydrocarbon levels were nearly below detection levels.

Throughout the course of the corrective action process, samples were collected and analyzed. Where areas were elevated in SP1 & SP2, additional excavation was performed and the area re-sampled and analyzed until it met clearance levels. As soils were excavated they were staged to a designated area. Once the excavation activities were completed, the spoil pile was laid out, sampled and analyzed. The results all of the analyses are presented below.

Analytical Summary

Summary of Remediation Sampling Analytical Results Total Petroleum Hydrocarbons - [TPH (mg/kg)], BTEX, & Chlorides [Cl (mg/kg)]												
Sample #	Depth (ft)	Date	TPH C6-C10	TPH C10-C28	TPH Total	Benzene	Toluene	Ethylbenzene	Xylenes	CI		
SP1 – Bot	2	10/25/13	156	6350	6506							
SP2 – Bot	2	10/25/13	112	1160	1280							
SP3 – Bot	7	10/25/13	6550	7750	14300							
SP3 – N. Wall	3.5	10/25/13	1610	2320	3930							
SP3 – S. Wall	3.5	10/25/13	<10.0	539	539							
SP3 – E. Wall	3.5	10/25/13	<10.0	<10.0	<10.0							
SP3 Delineation	20'	10/25/13	<10.0	<10.0	<10.0							
SP1 - Bot	4.5	10/28/13	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.150	< 0.030	192		
SP3 – Bot	7	10/28/13	1			<0.200	1.80	1.20	13.8	176		
SP3 – N. Wall	3.5	10/28/13				<0.200	1.09	0.832	10.3	128		
SP3 – S. Wall	3.5	10/28/13				< 0.050	<0.050	<0.150	<0.050	<16.0		
SP3 – W. Wall	3.5	10/28/13				<0.200	<0.200	<0.200	<0.600	<16.0		
SP3 – E. Wall	3.5	10/28/13				< 0.050	< 0.050	< 0.050	<0.150	32.0		
SP3 Delineation	20	10/28/13				< 0.050	< 0.050	< 0.050	<0.150	<16.0		
SP2 - N. Wall	3.5	10/31/13				<0.050	0.994	0.769	4.69	235		
SP2 – Bot	2	12/19/13	>10.0	441	441	< 0.050	< 0.050	<0.150	< 0.030	544		
SP2 – Bot	4.5									464		
SP3 – N. Wall	3.5	12/19/13	<10.0	139	139	<0.050	0.055	< 0.050	<0.050	256		
Spoil Pile	N/A	11/14/13	84.1	1730	1814.1							
Spoil Pile	N/A	02/13/14				<0.050	< 0.050	<0.150	<0.030	208		
SP2 Bot Delineation	6		<10.0	<10.0	<10.0	<0.050	<0.050	<0.150	<0.030	<16.0		

Results of analyses following remediation activities are as follows:

* ND = Non-Detect; concentration below detection limits.

Red Values indicate above regulatory threshold levels

Green Values indicate at or below regulatory threshold levels.

A review of the analytical data indicated Areas SP1 & SP2 are within the Oil Conservation Division (OCD) regulatory threshold limits. Based upon this information it has been determined that remediation of the site is complete for these areas. It should be noted that delineation of SP2 determined this area was below the required delineation level of 250 mg/kg for chlorides at 6' below ground level.

Because of soil stability issues, Area SP3 could not be excavated further. The installation of a 20 mil liner in the bottom of the excavated area was proposed and approved by NMOCD prior to backfilling. The delineation of SP3 determined this area was below the required delineation level of 250 mg/kg for chlorides at 20' below ground level.

HOBBS OCD

MAR 31 2014

Nearburg Producing Company Pennzoil Fed #2 Remediation Summary (Continued)

RECEIVED

After the installation of the liner in SP 3, the entire pasture area excavation was backfilled with clean soil and top soil installed from adjacent areas. The site was contoured across the gradient and seeded per BLM specifications. Upon completion of seeding, the pasture area was fenced to keep livestock off of the area while the site vegetates. Once the site has vegetated, the fence will be removed.

In addition, the spoil pile from the excavation activities was well below regulatory threshold levels. Consequently, agreed, this soil incorporated back into the tank battery and used as fill material and supplement the construction of new containment walls. The new containment was installed in 6" lifts and compacted until it reached the predetermined height of 2' vertical. While it was noted that this is an exception to normal protocols, it was agreed by NMOCD that this is a rare case where the location of the site along with the nature and levels of the contaminants were such that reuse of the soil was technically and environmentally well suited.

Copies of the photographs, final C-141, site diagram, and analytical reports and are attached.

Prepared by:

Sul Holun

Fred Holmes Project Manager Etech Environmental & Safety Solutions, Inc.



1. View of impact area inside tank battery.



2. View of spill area terminus in the pasture area (SP3.)



3. View of excavated area at the terminus (SP3).



4. View of the area adjacent to the battery following excavation (SP2).



6. View of the excavation during backfilling operations.



7. View of the tank battery area after restoration.



8. View of the pasture area following backfilling, contouring, seeding, and fencing.



HOBBS OCD

District I 1625 N. French Dr., Hobbs, NM SPAR 31 2014 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87 RECEIVED District IV District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

> **Oil Conservation Division** 1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC

Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR		Initial Report	\boxtimes	Final Report
Name of Company: Nearburg Producing Company	Contact: Tim Green				
Address: 3300 N. A Street, Suite 120, Midland, TX 79705	Telephone No.: 432-818-2940	_			
Facility Name: Pennzoil Federal #2	Facility Type: Oil Well				

Surface Owner: Bureau of Land Management Mineral Owner: Bureau of Land Management API No.: 30-025-26499

				LOCA	TION OF RE	LEASE		
Unit Letter H	Section 12	Township 198	Range 33E	Feet from the 1980	North/South Line North	Feet from the 660	East/West Line Bast	County

Longitude: Latitude:

NATURE OF RELEASE - - f D -l

Type of Release: Light Oil	Volume of Release: 172	Volume Recovered: 0
Source of Release: Tank	Date and Hour of Occurrence: 07/30/2013	Date and Hour of Discovery:
Was Immediate Notice Given?	aquired If YES, To Whom? E.L. Gonzales NMOCD & Mike	Button BLM
By Whom? Roger King	Date and Hour 07/30/13 1530 hrs	8
Vas a Watercourse Reached?	If YES, Volume Impacting the W	Vatercourse.
f a Watercourse was Impacted, Describe Fully.*:		
Describe Area Affected and Cleanup Action Taken.*: A corrective aurumary report on the corrective actions taken is attached. hereby certify that the information given above is true and comple egulations all operators are required to report and/or file certain re public health or the environment. The acceptance of a C-141 repo	ete to the best of my knowledge and under elease notifications and perform corrective	stand that pursuant to NMOCD rules and actions for releases which may endanger
hould their operations have failed to adequately investigate and re r the environment. In addition, NMOCD acceptance of a C-141 r ederal, state, or local laws and/or regulations.	emediate contamination that pose a threat to report does not relieve the operator of respo	o ground water, surface water, human health onsibility for compliance with any other
signature: In Sam	OIL CONSER	RVATION DIVISION
		K - S di
Printed Name: Tim Green	Approved by District Supervisor.	Kristin Lynch
rinted Name: Tim Green Title: Marketing & Production Services Manager	Approved by District Supervisor: Approval Date: 8/18/2016	Kuston Lynch Expiration Date:
	9/19/016	

XK 1620Y pJXK1620948824 Site Diagram



Reclamation Plan Overview

- Excavate the area within the tank battery to a depth where there are no visual or screened indications of hydrocarbons, or 3-4' below ground level (bgl). For safety reasons, the excavation will taper upward towards the tanks to a maximum depth of 6" - 1' bgl within 3-4 feet of the tanks. Screening will be done using a PID.
- Excavate the area outside of the containment to a depth where there are no visual or screened indications of hydrocarbons or 6-7' bgl which is below the root zone for the vegetation in the area.
- Once screening indicates contamination is no longer present, or if maximum depth is achieved, samples will be collect at the designated points (SP) on the image and analyzed for TPH.
- If hydrocarbons are left in place inside or outside of the containment, a liner will be installed prior to backfilling.
- Backfilling of the area inside the containment will be with caliche to grade. Backfilling outside of the containment will be by using fill material sources. with 6-12 " of top soil from on-site borrow sources. Site in this area is to be left rough.
- 6. Off-pad areas are to be seeded by broadcast or seed drill.
- Tank battery containment will be repaired and areas fenced until vegetation takes hold.

Nearburg Producing Pennzoil Fed #2 Reclamation Plan **Analytical Results**

percent.



March 14, 2014

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 03/13/14 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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 (V1, 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



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

03/13/2014	Sampling Date:	03/06/2014
03/14/2014	Sampling Type:	Soil
PENZOIL FED #2	Sampling Condition:	** (See Notes)
204-4447-000	Sample Received By:	Jodi Henson
LEA COUNTY, NM		
	03/14/2014 PENZOIL FED #2 204-4447-000	03/14/2014Sampling Type:PENZOIL FED #2Sampling Condition:

Sample ID: SP 2 6' (H400768-01)

BTEX 8021B	mg	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/14/2014	ND	2.16	108	2.00	6.59	
Toluene*	<0.050	0.050	03/14/2014	ND	2.04	102	2.00	6.83	
Ethylbenzene*	<0.050	0.050	03/14/2014	ND	1.97	98.7	2.00	6.97	
Total Xylenes*	<0.150	0.150	03/14/2014	ND	5.68	94.7	6.00	6.86	
Total BTEX	<0.300	0.300	03/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC 101 % 89.4-126

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS .	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/14/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyza	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/14/2014	ND	199	99.6	200	8.31	
DRO >C10-C28	<10.0	10.0	03/14/2014	ND	194	96.9	200	5.88	
Surrogate: 1-Chlorooctane	91.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.7	% 63.6-15	4						

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Celecy D. Keene

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 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. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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analyses. All claims include services. In no event shall C arritestes or accession arrive Relinquished B Relinquished B Delivered By	Z	use whatsower shall be senial damages, including fervious hereunder by C Date: <u>163, 3-13-14</u> Time: <u>1500</u> Date: Time:	deeme without ardina	d weiv at limit rega	ved	By: By: By: By: By:	e in with international intern	inting a uptions th claim tact	tion	elved b of use, sed up	or lose on any	sinel w s of pro- of the	offits incurred by o	r completion of I client, its subsidi asons or otherwit Phone Re Fax Resu REMARK	the applicab arles, iso. ISUIT: IT:	Yes			d'i Pho d'i Fax		8					

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393 2325



February 14, 2014

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 02/13/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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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 (V1, 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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/13/2014	Sampling Date:	02/13/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: BLEND PILE (H400443-01)

BTEX 8021B	mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	ne* <0.050 0.050		02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	<0.050	0.050	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	<0.050	0.050	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTEX	<0.300	0.300	02/14/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6						
Chloride, SM4500CI-B mg		lkg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/14/2014	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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- ** 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. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

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Byeas. All claims including those for negligence and any other caus vice. In no event shall Cardinal be liable for incidental or consequer	whatsoever shall be d	leamed	waived	d unless	s made	in writin	ng and	receive	d by Ca	rdinal v	within 30 days after	er completion of	the applical	ble .							•		•	
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

February 12, 2014

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 02/11/14 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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 (V1, 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



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

Received:	02/11/2014	Sampling Date:	02/11/2014
Reported:	02/12/2014	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Kathy Perez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 BOTTOM 4.5' (H400417-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/12/2014	ND	416	104	400	3.92	

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 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 incidential carcinequential 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. Kune

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: Lability 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 whatscever shall be deemed walved unless made in writing and received by Cardinal within (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, buriess interruptors, loss of or portis incurred by client, its sublidiaries, affittates 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. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

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Project Manager: Kit Prichard				• • •			Ρ.	0. #	2	04	- 4447-	000		2 10 2 2 10		1		-	1					
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



December 20, 2013

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 12/19/13 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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 (V1, 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. KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708 Fax To: (432) 563-2213

Received:	12/19/2013	Sampling Date:	12/19/2013
Reported:	12/20/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 BOTTOM 2' (H303085-01)

Analyte	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2013	ND	1.94	97.0	2.00	2.13	
Toluene*	<0.050	0.050	12/20/2013	ND	1.93	96.5	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/20/2013	ND	1.91	95.5	2.00	2.12	
Total Xylenes*	<0.150	0.150	12/20/2013	ND	5.63	93.8	6.00	1.25	
Total BTEX	<0.300	0.300	12/20/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/20/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/20/2013	ND	198	98.8	200	1.26	
DR0 >C10-C28	441	10.0	12/20/2013	ND	197	98.6	200	1.90	
Surrogate: 1-Chlorooctane	98.1	65.2-14	0						
Surrogate: 1-Chlorooctadecane	125 9	63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



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

Received:	12/19/2013	Sampling Date:	12/19/2013
Reported:	12/20/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3N WALL 3.5' (H303085-02)

BTEX 80218	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/20/2013	ND	1.94	97.0	2.00	2.13	
Toluene*	0.055	0.050	12/20/2013	ND	1.93	96.5	2.00	2,25	
Ethylbenzene*	<0.050	0.050	12/20/2013	ND	1.91	95.5	2.00	2.12	
Total Xylenes*	<0.150	0.150	12/20/2013	ND	5.63	93.8	6.00	1.25	
Total BTEX	<0.300	0.300	12/20/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.8	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/20/2013	ND	432	108	400	3.77	
TPH 8015M	mg	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/20/2013	ND	198	98.8	200	1,26	
DRO >C10-C28	139	10.0	12/20/2013	ND	197	98.6	200	1.90	

Surrogate: 1-Chlorooctane106 %65.2-140Surrogate: 1-Chlorooctadecane119 %63.6-154

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*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 walved unless made in verting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be libite for incidental or consequential damages, including, whout limitation, business interruptions, loss of uses, or loss of profits incurred by dient, its subsidiaries, aritilized or successors arising out of related to the performance of the services hereunder by Cardinal, regardless or whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the amplete limited above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kaine

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 5 of 5



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

November 15, 2013

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 11/14/13 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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 (V1, 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. KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708 Fax To: (432) 563-2213

Received:	11/14/2013	Sampling Date:	11/14/2013
Reported:	11/15/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	Cool & Intact
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SPOIL PILE (H302774-01)

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	84.1	10.0	11/14/2013	ND	182	91.1	200	5.05	
DRO >C10-C28 1730		10.0	11/14/2013	ND	182	90.8	200	6.00	
Surrogate: 1-Chlorooctane	115	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	138	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393

Page 4 of 4



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

November 01, 2013

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/31/13 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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 (V1, 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



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

Received:	10/31/2013	Sampling Date:	10/31/2013
Reported:	11/01/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	Cool & Intact
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 N. WALL 3.5' (H302664-01)

BTEX 8021B	mg/k	g	Analyze	d By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2013	ND	2.06	103	2.00	0.153		
Toluene*	0.994	0.050	11/01/2013	ND	2.05	103	2.00	0.309		
Ethylbenzene*	0.769	0.050	11/01/2013	ND	2.07	104	2.00	0.301		
Total Xylenes*	4.69	0.150	11/01/2013	ND	5.96	99.4	6.00	0.106		
Total BTEX	6.45	0.300	11/01/2013	ND						
Surrogate: 4-Bromofluorobenzene (PIL	153 %	89.4-12	6							
TPH 8015M	mg/k	g	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	80.5	10.0	11/01/2013	ND	175	87.6	200	8.35		
DRO >C10-C28	235	10.0	11/01/2013	ND	165	82.6	200	10.0		
Surrogate: 1-Chlorooctane	85.9 %	65.2-14	0							
Surrogate: 1-Chlorooctadecane	117 %	63.6-15	4							

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*=Accredited Analyte

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HO8BS, NM 88240

Notes and Definitions

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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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager
CARDINAL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 Company Name: Efech		ANALYSIS REQUEST
Project Manager: Kit Aritchard	P.O. #: 204-4447-000	
Address:	Company:	
City: State: Zip:	Attn:	
Phone #: Fax #:	Address:	
Project #: 204-4447-000 Project Owner:	City:	
Project Name: pen nzoil Fed #2	State: Zip:	
Project Location: Leg County	Phone #:	
Sampler Name: Terry Osborn	Fax #:	
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PLEASE NOTE: Liability and Damages. Cardina's liability and clients exclusive remedy for any claim arising wholt analyses. All claims including those for negligence and any other cause whatsoever shall be deemed welved unless	used in contract or tort, shall be limited to the amount paid by the client if the in writing and received by Casting within 30 days after controleting of	A for the
envice. In no event thest entitle is initial to inicial related to consequential damages, including without limitation, but affiliates or successors ensing out of or related to the performance of services hereunder by Caudinal, regardless of	e Interruptions, lose of use, or lose of profiles incurred by client, its subsid	sidiaries,
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t Cardinal cannot accept verbal changes. Please fax written	No No	

Page 4 of



October 30, 2013

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/29/13 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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 (V1, 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



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

Received:	10/29/2013	Sampling Date:	10/29/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 BOTTOM 2' (H302623-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.100	0.100	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.100	0.100	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.300	0.300	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.600	0.600	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/30/2013	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



October 30, 2013

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/29/13 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, 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



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

Received:	10/29/2013	Sampling Date:	10/28/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 BOTTOM 4.5' (H302613-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2013	ND	2.16	108	2.00	2.91	
Toluene*	<0.050	0.050	10/28/2013	ND	2.20	110	2.00	2.57	
Ethylbenzene*	<0.050	0.050	10/28/2013	ND	2.21	110	2.00	2.96	
Total Xylenes*	<0.150	0.150	10/28/2013	ND	6.39	106	6.00	3.57	
Total BTEX	<0.300	0.300	10/28/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	89.4-12	5						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/29/2013	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2013	ND	210	105	200	1.98	
DRO >C10-C28	<10.0	10.0	10/29/2013	ND	202	101	200	1.03	
Surrogate: 1-Chlorooctane	108 %	65.2-14)						
Surrogate: 1-Chlorooctadecane	109 9	63.6-154	1						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/29/2013	Sampling Date:	10/29/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 BOTTOM 7' (H302613-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	1.89	0.200	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	1.20	0.200	10/30/2013	ND	2.00	99.8	2.00	0.532	
Fotal Xylenes*	13.8	0.600	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	16.9	1.20	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	168	89.4-12	6						
Chloride, SM4500Cl-B	mg/	log	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/29/2013	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/29/2013	Sampling Date:	10/29/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 N. WALL 3.5' (H302613-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	1,09	0.200	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	0.832	0.200	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	10.3	0.600	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	12.2	1.20	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	165 9	89.4-12	6						
Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/29/2013	ND	416	104	400	3.92	

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Page 4 of 10



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

Received:	10/29/2013	Sampling Date:	10/29/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 S. WALL 3.5' (H302613-04)

8TEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.050	0.050	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.050	0.050	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.150	0.150	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.300	0.300	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2013	ND	416	104	400	3.92	

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Received:	10/29/2013	Sampling Date:	10/29/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 W. WALL 3.5' (H302613-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.200	0.200	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.200	0.200	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.600	0.600	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<1.20	1.20	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	89.4-12	5						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2013	ND	416	104	400	3.92	

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Received:	10/29/2013	Sampling Date:	10/29/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 E. WALL 3.5' (H302613-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.050	0.050	10/30/2013	ND	2.00	100	2.00	0.174	
Ethylbenzene*	<0.050	0.050	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.150	0.150	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.300	0.300	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	89.4-12	б						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2013	ND	416	104	400	3.92	

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Received:	10/29/2013	Sampling Date:	10/29/2013
Reported:	10/30/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 20' (H302613-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	10/30/2013	ND	2.02	101	2.00	0.429	
Toluene*	<0.050	0.050	10/30/2013	ND	2,00	100	2.00	0.174	
Ethylbenzene*	<0.050	0.050	10/30/2013	ND	2.00	99.8	2.00	0.532	
Total Xylenes*	<0.150	0.150	10/30/2013	ND	5.85	97.5	6.00	0.0606	
Total BTEX	<0.300	0.300	10/30/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2013	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Etech Company Name: ANALYSIS REQUEST P.O. #: 294-4447-000 Kit pritchard Project Manager: Address: Company: Attn: City: State: Zip: Fax #: Address: Phone #: Project #: 204-4447 .000 Project Owner: City: Pennzoil Fed #2 State: Project Name: Zip: Phone #: **Project Location:** eg. county 5 erry obbarn Sampler Name: Fax #: 0 SAMPLING MATRIX PRESERV FOR LAB USE ONLY 0 č GROUNDWATER WASTEWATER (C)O 0 # CONTAINERS Sample I.D. ACID/BASE: 2 Lab I.D. G)RAB OR 0 ICE / COOI SLUDGE OTHER : OTHER a H30263 SOIL or 100ATB TIME Rottom 8:30 0-29. J Rottom 2 1 3 35 Niwall 3.5 4 J wall J 5 3,5 J w. wall J 3.5 6 9:00 20 ed in contract or tort, shall be limited to fine ount paid by the client for th PLEASE NOTE: Liability and Damages, Cardinal's its ty and client's exclu waived unless made in writing and received by Cardinal within 30 days efter completion of the applicabl maivees. All claims including those without Emitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequen ntal damages, including tes or successors arising out of or related to the performance of services hereinder by Cardinal, regardless of whether such clear is based upon any of the above stat **Phone Result:** D No Add'l Phone # **Relinquished By:** Date: 10-29-13 Received By: Ves Yes Add'I Fax #: Fax Result: No No mo al REMARKS: TIMO Date: ceived By: **Relinquished By:** Time: Sample Condition Delivered By: (Circle One) CHECHED BY: Cool Intact Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2626



October 28, 2013

KIT PRICHARD ETECH Environmental & Safety Solutions, Inc. P. O. BOX 8469 MIDLAND, TX 79708

RE: PENZOIL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/25/13 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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 (V1, 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



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

Received:	10/25/2013	Sampling Date:	10/25/2013
Reported:	10/28/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 BOTTOM 2' (H302601-01)

TPH 8015M	mg/kg		Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	156	10.0	10/28/2013	ND	184	91.8	200	7.64		
DRO >C10-C28	6350	10.0	10/28/2013	ND	175	87.6	200	10.2		
Surrogate: 1-Chlorooctane	134	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	209	% 63.6-15	4							

Sample ID: SP 2 BOTTOM 2' (H302601-02)

TPH 8015M	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	112	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	1160	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	111	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112	% 63.6-15	4						

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Received:	10/25/2013	Sampling Date:	10/25/2013
Reported:	10/28/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 BOTTOM 7' (H302601-03)

TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6550	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	7750	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	159	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane		% 63.6-15	4						

Sample ID: SP 3 N. WALL 3.5' (H302601-04)

TPH 8015M	mg	/kg	Analyze	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	1610	10.0	10/28/2013	ND	184	91.8	200	7.64			
DRO >C10-C28	2320 10.0		10/28/2013	ND	175	87.6	200	10.2			
Surrogate: 1-Chlorooctane	181	% 65.2-14	0								
Surrogate: 1-Chlorooctadecane	116	% 63.6-15	4								

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Received:	10/25/2013	Sampling Date:	10/25/2013
Reported:	10/28/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 S. WALL 3.5' (H302601-05)

TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	539 10.0		10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	96.0	% 65.2-14	0						
urrogate: 1-Chlorooctadecane 130 % 63.6-1		4							

Sample ID: SP 3 E. WALL 3.5' (H302601-06)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0 10.0		10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	95.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/25/2013	Sampling Date:	10/25/2013
Reported:	10/28/2013	Sampling Type:	Soil
Project Name:	PENZOIL FED #2	Sampling Condition:	** (See Notes)
Project Number:	204-4447-000	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 W. WALL 3.5' (H302601-07)

TPH 8015M	mg/	mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0	10.0	10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	99.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

Sample ID: SP 3 20' (H302601-08)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/28/2013	ND	184	91.8	200	7.64	
DRO >C10-C28	<10.0 10.0		10/28/2013	ND	175	87.6	200	10.2	
Surrogate: 1-Chlorooctane	93.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.0	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Company Name	Etech.							4	1/	6 10				2	•	ANA	LYS	IS R	EQU	EST			
Project Manage	oject Manager: Kit pritchard					P	.0. #	:2	04	1-444	7-000					1	1	T	T	T	T	1	T
Address:						Ċ	omp	any:					• •							1.			
City:	State:	Zip				A	Attn:										1				1		
Phone #:	Fax #:				•	A	Address:						•					1 .					
Project #: 20	04-4447-000 Project Owne	c				C	ity:		_														
Project Name:	Pennzoil Fed #	\$2		•		s	tate:		2	Zip:			•			1		1				1	
Project Location	n: Lea county					P	hone	#:									1						
Sampler Name:						F	ax #:		•											1			
FOR LAB USE ONLY					ATRI	X	PR	ESER	27	SAMPLI	NG	+					5.						
Lab I.D. H302601	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH											
1	SPI Bottom 2'				J			J		10-25		V								1			1
2	SP2 Rottom?				1			1		1.													
3	Sp3 Bottom 7'			•	1					-		4								1			
4	503 N. vall 3.5"	-			11-	++-			4					-				·			-		
5	5P3 5, Wall 3, 5'		-			+	-	++	+	-			-	-		-	·	-	-	-	-		•
6	593 E. Wall 351	+	-		+-		+		+	-				-	-		-	-	-	1	-	-	-
8	503 W. WALL 3.5				++	++	+		+	1		1		-	-		-	-	-	1	1	-	
- D	303 20	+			+	++	+		+				-			1	+	-		+			
		\mathbf{T}							1				-			-	-		1	1.		1.	1
ensiyees. Al claims includ service: In no event end C additions or auconsorts and Relinquished B Relinquished B Delivered By	10-25 J	deeme g withour Cardina Re Re	d weit ut Breit L regenerer	red unless mo brefon, business ardeess of whe ved By: ved By: ved By:	de in wrt si Interru ther such	ting and re ptions, loss	s of use, seed up	CHE	nal with of pro of the Office CKL	thin 30 days after fils incurred by a above stated re ED BY: als)	lient, its subsidi	he epp8cat aries, sc. rsult: it: S:	Ve Ve		No No	Add	l Phom I Fax #						