

August 5th, 2014

Dr. Tomáš Oberding, PhD

Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

**RE: Termination Request
Kinney Inc. – Littman 8 Federal #2
UL/K sec. 8 T21S R38E
API No. 30-025-33699**

Dr. Oberding:

Kinney Incorporated (Kinney) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 5.8 miles northeast of Eunice, New Mexico at UL/K sec. 8 T21S R38E. Groundwater is located at a depth of 66 ft bgs.

On May 15th, 2014, Kinney was notified of a release at the site. A cow rubbed up against a 1 inch nipple on the well head and released 4 barrels of produced water and oil over 1,177 square feet of lease pad and pasture land. None of this fluid was recovered. An initial C-141 was signed by Kinney on June 2nd, 2014 and submitted to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on June 3rd, 2014 to assess the release. Four points within the release area were sampled at the surface, and three points were sampled with depth (Figure 1). All samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis. Point 1 returned elevated laboratory chloride levels until 5.5 ft bgs. Point 2 returned elevated chloride levels until 1 ft bgs, and Point 3 and Point 4 returned chloride levels below regulatory standards at the surface (Appendix B). Gasoline Range Organics (GRO) readings at all points and all depths returned values of non-detect. Diesel Range Organics (DRO) readings were elevated at the surface of Point 1 and Point 2, but fell below regulatory standards at depth. Point 3 returned DRO values above regulatory standards at the surface and 6 inches bgs, but at 1 ft bgs returned a DRO value below regulatory standards. Point 4 returned a DRO value of non-detect at the surface.

A Corrective Action Plan (CAP) was submitted to and approved by NMOCD on June 25th, 2014. Based on the laboratory analysis of the release, the CAP stated that the release area around Point 1 would be excavated to a depth of 5 ft bgs. At the base of the excavation, a composite bottom

sample would be taken to confirm that constituents were below regulatory standards. Point 2 would be scraped to a depth of 1 ft bgs. Point 3 would be scraped to 1 ft bgs and a composite bottom sample would be taken to confirm that TPH standards were below regulatory standards. Point 4 had all constituents below regulatory standards at the surface. Therefore, only the vegetation would be washed with Micro-Blaze to remove residual staining.

Micro-Blaze contains a blend of wetting agents, nutrients and several strains of safe, non-pathogenic *Bacillus* bacteria. When applied to a hydrocarbon-based or organic spill or contaminant, the wetting agent begins breaking down the contaminants into smaller molecules for more efficient degradation, by the microbes, into harmless byproducts like carbon dioxide, water, and trace salts.

All excavated soils would be evaluated to use as backfill. Any soils that did not meet regulatory standards would be taken to a NMOCD approved facility for disposal. Clean soil would be imported to the site to replace the soils taken for disposal and blended with the residual excavated soils to serve as backfill. Samples of the blended backfill would be taken to a commercial laboratory for analysis to confirm that all constituents were below regulatory standards. The site would then be backfilled with the blended soil and contoured to the surrounding location.

Corrective actions began at the site on July 8th, 2014. Micro-Blaze was applied to the overspray area to wash the vegetation and degrade the hydrocarbons. The remainder of the site was excavated in four parts (Figure 2). The north portion was excavated to 5 ft bgs and 2 ft bgs. The central portion was scraped to 1 ft bgs, and the southern portion, in the pasture, was scraped to 2 ft bgs. All excavated soils to a total of 92 cubic yards of soil were taken to a NMOCD approved facility for disposal.

Composite samples from the base of each scrape or excavation were taken to a commercial laboratory to confirm that chloride and TPH values were below regulatory standards (Appendix C). On July 10th, 2014, NMOCD approved the site to be backfilled. A total of 108 cubic yards of caliche and 12 cubic yards of top soil were imported to the site to serve as backfill. A sample of the imported backfill was taken to a commercial laboratory for analysis and returned a chloride reading of non-detect. The lease pad was backfilled with the imported caliche and the pasture was backfilled with the imported top soil. Both areas were contoured to the surrounding location. On July 10th, 2014, the site was seeded with Lea County Mix.

Photo documentation of all activities can be found in Appendix D.

Given that Kinney has completed all activities as stated in the NMOCD approved CAP, Kinney respectfully requests 'remediation termination' and site closure. A final C-141 can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in dark ink, appearing to read 'L. Weinheimer', with a long, horizontal, slightly wavy line extending to the right.

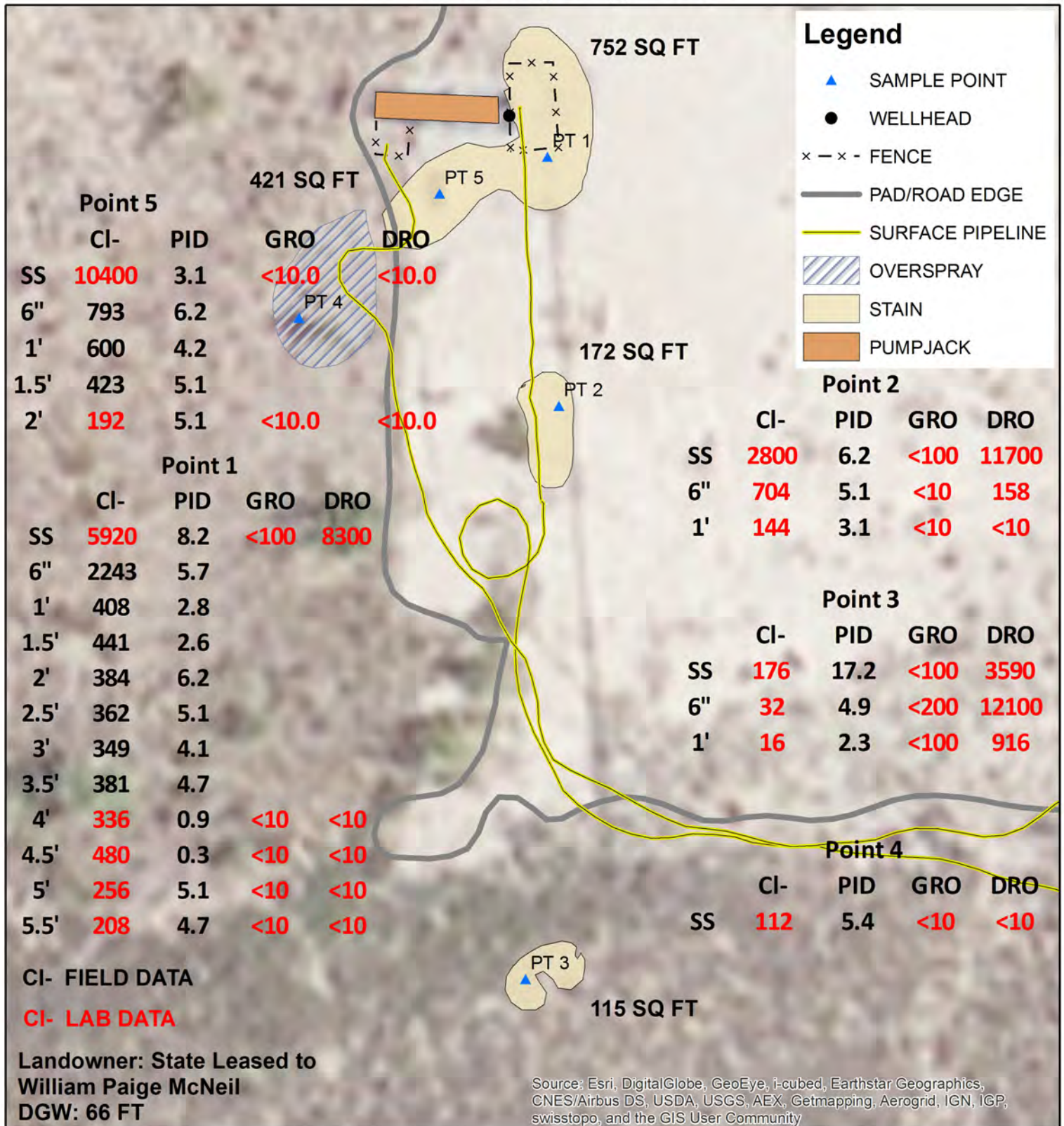
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Final Sampling Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

Figures

Initial Sampling Data



**KINNEY INC.
LITTMAN 8
FEDERAL 2**

Unit Letter K, Section 8
T-21-S R-38-E
LEA COUNTY, NM

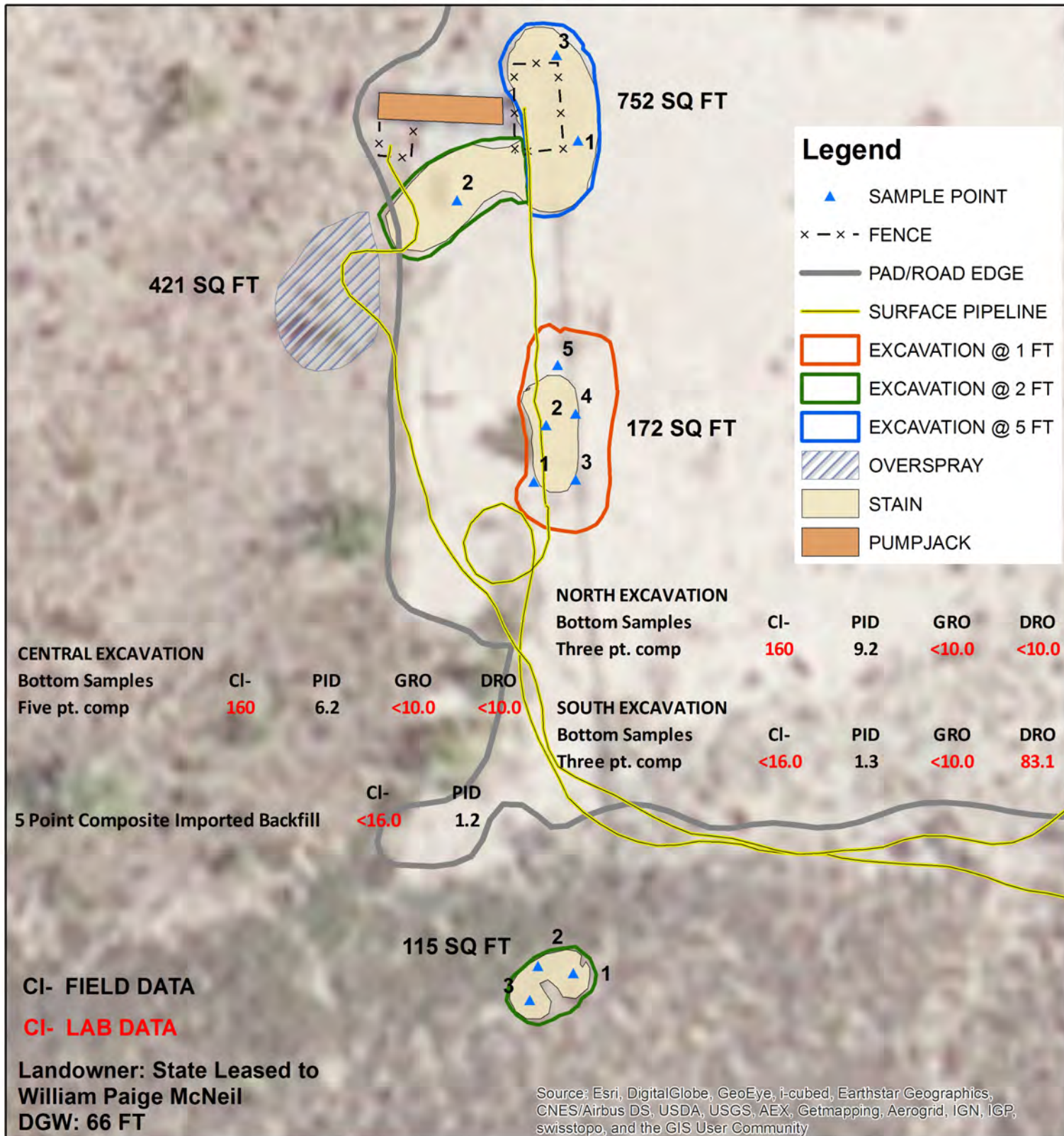
Figure 1



0 10 20
Feet

GPS Date: 6/3/14 AG
Drawing date: 6/20/14
Drafted by: L. Weinheimer

Excavation Data



**KINNEY INC.
LITTMAN 8
FEDERAL 2**

Unit Letter K, Section 8
T-21-S R-38-E
LEA COUNTY, NM

Figure 2



0 10 20
Feet

GPS Date: 7/8/14 AG
Drawing date: 7/9/14
Drafted by: L. Weinheimer, T. Grieco

Appendix A

Initial C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Kinney Incorporated	Contact	Edward Saldivar
Address	PO Box 809, Andrews, TX 79714	Telephone No.	432-556-6236
Facility Name	Littman 8 Federal #2	Facility Type	Pump Jack
Surface Owner State	Mineral Owner	BLM	API No. 30-025-33699

LOCATION OF RELEASE

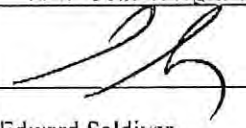
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	8	21S	38E	1980	FSL	1980	FWL	Lea

Latitude 32°29'34.62" N Longitude 104°6'39.21" W

NATURE OF RELEASE

Type of Release	Produced water and oil	Volume of Release	4 bbls	Volume Recovered	0 bbls
Source of Release	1 in. nipple on well head	Date and Hour of Occurrence	5/15/14	Date and Hour of Discovery	5/15/14
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.* A cow rubbed up against 1 in. nipple on well head. Shut valve and installed fence around well head.					
Describe Area Affected and Cleanup Action Taken.*					

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Edward Saldivar		Approved by Environmental Specialist:	
Title: President		Approval Date:	Expiration Date:
E-mail Address: edward@kinneyincorporated.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6-2-14	Phone: 432-556-6236		

* Attach Additional Sheets If Necessary

Appendix B

Initial Sampling Labs

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



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

June 10, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 06/04/14 9:55.

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_accred_certif.html.

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 (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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ SURFACE (H401701-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	06/09/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/09/2014	ND	191	95.4	200	3.91		
DRO >C10-C28	8300	100	06/09/2014	ND	197	98.3	200	4.65		
Surrogate: 1-Chlorooctane										
	85.5 %	65.2-140								
Surrogate: 1-Chlorooctadecane										
	288 %	63.6-154								

Sample ID: PT. 1 @ 4' (H401701-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2014	ND	191	95.4	200	3.91	
DRO >C10-C28	<10.0	10.0	06/09/2014	ND	197	98.3	200	4.65	
Surrogate: 1-Chlorooctane	88.1 %	65.2-140							
Surrogate: 1-Chlorooctadecane	92.3 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ SURFACE (H401701-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	06/05/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/09/2014	ND	191	95.4	200	3.91		
DRO >C10-C28	11700	100	06/09/2014	ND	197	98.3	200	4.65		

Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 405 % 63.6-154

Sample ID: PT. 2 @ 6" (H401701-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2014	ND	191	95.4	200	3.91	
DRO >C10-C28	158	10.0	06/09/2014	ND	197	98.3	200	4.65	

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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RICE ENVIRONMENTAL CONSULTING & SAFETY
JACOB KAMPLAIN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 1' (H401701-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/05/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2014	ND	191	95.4	200	3.91	
DRO >C10-C28	<10.0	10.0	06/09/2014	ND	197	98.3	200	4.65	
Surrogate: 1-Chlorooctane	139 %	65.2-140							
Surrogate: 1-Chlorooctadecane	136 %	63.6-154							

Sample ID: PT. 3 @ SURFACE (H401701-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/05/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/09/2014	ND	191	95.4	200	3.91		
DRO >C10-C28	3590	100	06/09/2014	ND	197	98.3	200	4.65		
Surrogate: 1-Chlorooctane	72.5 %	65.2-140								
Surrogate: 1-Chlorooctadecane	162 %	63.6-154								

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Celey D. Keene, Lab Director/Quality Manager

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 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	06/04/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 6" (H401701-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/05/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	06/09/2014	ND	191	95.4	200	3.91		
DRO >C10-C28	12100	200	06/09/2014	ND	197	98.3	200	4.65		

Surrogate: 1-Chlorooctane 77.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 331 % 63.6-154

Sample ID: PT. 4 @ SURFACE (H401701-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/05/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/09/2014	ND	191	95.4	200	3.91		
DRO >C10-C28	<10.0	10.0	06/09/2014	ND	197	98.3	200	4.65		

Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RECS</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Kyle Norman</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>											
Address:				Company:															
City: Hobbs State: NM Zip: 88240				Attn:															
Phone #:				Address:															
Project #:				City:															
Project Name: <u>Kinney Littman 8 Federal #2</u>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <u>Amber Groves</u>				Fax #:															
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING							
						# CONTAINERS		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE		TIME					
<u>H401701-</u>																			
<u>01 Pt. 1 @ Surface</u>						<u>G</u>						<u>6-3-14</u>		<u>9:00</u>		<input checked="" type="checkbox"/>			
<u>02 Pt. 1 @ 4ft</u>						<u>G</u>						<u>6-3-14</u>		<u>11:00</u>		<input checked="" type="checkbox"/>			
<u>03 Pt. 2 @ Surface</u>						<u>G</u>						<u>6-3-14</u>		<u>9:05</u>		<input checked="" type="checkbox"/>			
<u>04 Pt. 2 @ 1in</u>						<u>G</u>						<u>6-3-14</u>		<u>9:40</u>		<input checked="" type="checkbox"/>			
<u>05 Pt. 2 @ 1ft</u>						<u>G</u>						<u>6-3-14</u>		<u>10:10</u>		<input checked="" type="checkbox"/>			
<u>06 Pt. 3 @ Surface</u>						<u>G</u>						<u>6-3-14</u>		<u>9:10</u>		<input checked="" type="checkbox"/>			
<u>07 Pt. 3 @ 1in</u>						<u>G</u>						<u>6-3-14</u>		<u>9:45</u>		<input checked="" type="checkbox"/>			
<u>08 Pt. 4 @ Surface</u>						<u>G</u>						<u>6-3-14</u>		<u>9:15</u>		<input checked="" type="checkbox"/>			

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Amber Groves</u>		Date: <u>6-4-14</u>	Received By: <u>C. L. Heene</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: <u>9:55</u>	Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Date:	Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Time:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		<u>CGH</u>	
			No <input type="checkbox"/> No <input type="checkbox"/>			
REMARKS: email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com						

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#51

June 20, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 06/12/14 16:20.

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_accred_certif.html.

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 (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. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	06/12/2014	Sampling Date:	06/12/2014
Reported:	06/20/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	T21S R38E		

Sample ID: PT. 1 @ 4.5' (H401805-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/18/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	
Surrogate: 1-Chlorooctane	104 %	65.2-140							
Surrogate: 1-Chlorooctadecane	120 %	63.6-154							

Sample ID: PT. 1 @ 5' (H401805-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/18/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2014	ND	207	104	200	7.29	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	216	108	200	8.55	
Surrogate: 1-Chlorooctane	109 %	65.2-140							
Surrogate: 1-Chlorooctadecane	126 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	06/12/2014	Sampling Date:	06/12/2014
Reported:	06/20/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	T21S R38E		

Sample ID: PT. 1 @ 5.5' (H401805-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/18/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	<10.0	10.0	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	95.7 %	65.2-140							
Surrogate: 1-Chlorooctadecane	96.8 %	63.6-154							

Sample ID: PT. 3 @ 1' (H401805-04)

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	06/18/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/19/2014	ND	174	87.0	200	4.35	
DRO >C10-C28	916	100	06/19/2014	ND	195	97.5	200	4.36	
Surrogate: 1-Chlorooctane	88.0 %	65.2-140							
Surrogate: 1-Chlorooctadecane	153 %	63.6-154							

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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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

RDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Date: 11/1/01 Received By: [Signature]

Phone Result: []
Fax Result: []

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy shall be deemed waived unless made in writing and received by Cardinal within 30 days of the date of service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 6-12-14	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 4:20	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	REMARKS: email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com	
Sampler - UPS - Bus - Other: <i>280 #521</i>	Time:	CHECKED BY: (Initials) <i>KP</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

July 03, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 06/30/14 15:50.

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_accred_certif.html.

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 (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. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	06/30/2014	Sampling Date:	06/30/2014
Reported:	07/03/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R38E		

Sample ID: PT. 5 @ SURFACE (H401972-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	07/03/2014	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/01/2014	ND	166	83.0	200	1.54	
DRO >C10-C28	<10.0	10.0	07/01/2014	ND	178	89.0	200	0.444	
Surrogate: 1-Chlorooctane	105 %	65.2-140							
Surrogate: 1-Chlorooctadecane	112 %	63.6-154							

Sample ID: PT. 5 @ 2' (H401972-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/03/2014	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/01/2014	ND	166	83.0	200	1.54	
DRO >C10-C28	<10.0	10.0	07/01/2014	ND	178	89.0	200	0.444	
Surrogate: 1-Chlorooctane	105 %	65.2-140							
Surrogate: 1-Chlorooctadecane	113 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RECS</u>				BILL TO				ANALYSIS REQUEST																				
Project Manager: <u>Kyle Norman</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																				
Address:				Company:																								
City: Hobbs State: NM Zip: 88240				Attn:																								
Phone #: Fax #:				Address:																								
Project #: Project Owner:				City:																								
Project Name: <u>Kinney Litterman 2 Federal #2</u>				State: Zip:																								
Project Location:				Phone #:																								
Sampler Name: <u>Amber Graves</u>				Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
<u>H401972</u>																												
	<u>1 Pt. 5@ Surface</u>	<u>G</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>6-30-14</u>	<u>7:00</u>	<u>✓</u>	<u>✓</u>												
	<u>2 Pt. 5@ 2ft</u>	<u>G</u>	<u>1</u>			<u>✓</u>					<u>✓</u>		<u>6-30-14</u>	<u>7:30</u>	<u>✓</u>	<u>✓</u>												

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Amber Graves</u>	Date: <u>6-30-14</u> Time: <u>3:50</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			REMARKS: email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <u>AG</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Appendix C

Final Sampling Labs

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



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

July 09, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 07/08/14 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_accred_certif.html.

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 (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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	07/08/2014	Sampling Date:	07/08/2014
Reported:	07/09/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	T21S R38E		

Sample ID: NORTH 3 PT. COMP (H402072-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/09/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/09/2014	ND	191	95.3	200	0.0204	
DRO >C10-C28	<10.0	10.0	07/09/2014	ND	205	102	200	0.0322	
Surrogate: 1-Chlorooctane	83.8 %	65.2-140							
Surrogate: 1-Chlorooctadecane	87.3 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

EUSA

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>RECS</u>				BILL TO				ANALYSIS REQUEST																															
Project Manager: <u>Kyle Norman</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																															
Address:				Company:																																			
City: Hobbs State: NM Zip: 88240				Attn:																																			
Phone #: Fax #:				Address:																																			
Project #: Project Owner:				City:																																			
Project Name: <u>Kinney Lihman 8 Federal #2</u>				State: Zip:																																			
Project Location:				Phone #:																																			
Sampler Name: <u>Amber Groves</u>				Fax #:																																			
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING																													
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
																								7-8-14		1:30													

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Amber Groves</u>		Date: <u>7-8-14</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Relinquished By: <u>[Signature]</u>		Time: <u>3:30</u>		Received By: <u>[Signature]</u>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Time:		Sample Condition		CHECKED BY: (Initials)		REMARKS:	
Sampler - UPS - Bus - Other: <u>2-8c #51</u>				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<u>KP</u>		email results knorman@rice-ecs.com hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; Lpena@riceswd.com; sedwards@rice-ecs.com agroves@rice-ecs.com	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

July 09, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 07/08/14 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_accred_certif.html.

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 (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. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	07/08/2014	Sampling Date:	07/08/2014
Reported:	07/09/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	T21S R38E		

Sample ID: CENTER 5 PT. COMP (H402073-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/09/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/09/2014	ND	191	95.3	200	0.0204	
DRO >C10-C28	<10.0	10.0	07/09/2014	ND	205	102	200	0.0322	
Surrogate: 1-Chlorooctane	88.3 %	65.2-140							
Surrogate: 1-Chlorooctadecane	91.8 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ECES				BILL TO				ANALYSIS REQUEST																																			
Project Manager: Kyle Norman				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																																			
Address:				Company:																																							
City: Hobbs State: NM Zip: 88240				Attn:																																							
Phone #: Fax #:				Address:																																							
Project #: Project Owner:				City:																																							
Project Name: Kinney Littman 8 Federal #2				State: Zip:																																							
Project Location:				Phone #:																																							
Sampler Name: Amber Groves				Fax #:																																							
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																													
										GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
		H402003		Center Spt. Composite		C 1																																					

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Relinquished By: Amber Groves		Date: 7-8-14	Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 3:30	Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition		CHECKED BY: KP		
Sampler - UPS - Bus - Other:		Cool Intact		email results		
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		knorman@rice-ecs.com hconder@rice-ecs.com;		
		<input type="checkbox"/> No <input type="checkbox"/> No		Lweinheimer@rice-ecs.com; kjones@riceswd.com;		
				Lpena@riceswd.com; sedwards@rice-ecs.com		
				agroves@rice-ecs.com		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

July 09, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: KINNEY LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 07/08/14 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_accred_certif.html.

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 (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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 KYLE NORMAN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	07/08/2014	Sampling Date:	07/08/2014
Reported:	07/09/2014	Sampling Type:	Soil
Project Name:	KINNEY LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	T21S R38E		

Sample ID: SOUTH 3 PT. COMP (H402074-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/09/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/09/2014	ND	191	95.3	200	0.0204	
DRO >C10-C28	83.1	10.0	07/09/2014	ND	205	102	200	0.0322	
Surrogate: 1-Chlorooctane	86.6 %	65.2-140							
Surrogate: 1-Chlorooctadecane	92.2 %	63.6-154							

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 waived 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 incidental or consequential 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. Keene, Lab Director/Quality Manager

Notes and Definitions

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

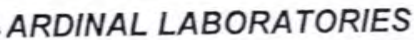
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Rush!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>Amber Groves</i>		Date: <i>7-8-14</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: <i>3:30</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:		email results	
Delivered By: (Circle One)		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		knorman@rice-ecs.com hconder@rice-ecs.com;	
Sampler - UPS - Bus - Other:		CHECKED BY: (Initials) <i>[Signature]</i>		Lweinheimer@rice-ecs.com; kjones@riceswd.com;	
				Lpena@riceswd.com; sedwards@rice-ecs.com	
				agroves@rice-ecs.com	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

July 15, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: LITTMAN 8 FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 07/09/14 16:10.

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_accred_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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
LAURA FLORES
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 397-1471

Received:	07/09/2014	Sampling Date:	07/09/2014
Reported:	07/15/2014	Sampling Type:	Soil
Project Name:	LITTMAN 8 FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 5 PT. COMP IMPORTED BACKFILL (H402092-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/15/2014	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST																	
Company Name: <u>RECS</u>										P.O. #:																	
Project Manager: <u>Laura Flores, Kyle Norman</u>										Company:																	
Address:										Attn:																	
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>										Address:																	
Phone #:										City:																	
Project #:										State: Zip:																	
Project Name: <u>Kinney</u>										Phone #:																	
Project Location: <u>Littman & Federal #2</u>										Fax #:																	
Sampler Name: <u>Chris Flores</u>																											
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		Chlorides		TPH 8015 M		BTEX		Texas TPH		Complete Cations/Anions		TDS	
		<u>H402092</u>		<u>5 Point Composite Impacted Backfill C</u>		<u>1</u>		<u>1</u>		<u>SOIL</u>		<u>✓</u>		<u>7-9-2014 3:00pm</u>		<u>X</u>											

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived 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, 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>		Date: <u>7-9-2014</u>	Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>		Date: <u>7-10</u>	Received By: <u>[Signature]</u>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <u>[Signature]</u>	REMARKS: email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: <u>cflores@rice-ecs.com</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

Appendix D

Photo Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

Kinney Inc. Littman 8 Federal #2

Unit Letter K, Section 8, T21S, R38E



Initial site photo, facing west

6/3/14



Initial site photo, facing north

6/3/14



Initial site photo, facing northeast

6/3/14



Initial site photo, facing north

6/3/14



Taking surface sample, facing north

6/3/14



Auguring for depth, facing north

6/3/14



Applying Micro-Blaze, facing north

7/8/14



Scraping in the pasture, facing north

7/8/14



Shoveling release around well head, facing north-west
7/8/14



Scraping on the lease pad, facing south
7/8/14



Sampling site, facing southwest
7/8/14



Scraping on pad completed, facing northwest
7/8/14



Scraping on pad completed, facing northeast 7/8/14



Scraping on pad completed, facing southwest 7/8/14



Scraping on pasture completed, facing south 7/8/14



Exporting soil, facing northeast 7/9/14



Importing caliche, facing south

7/9/14



Importing top soil, facing northwest

7/10/14



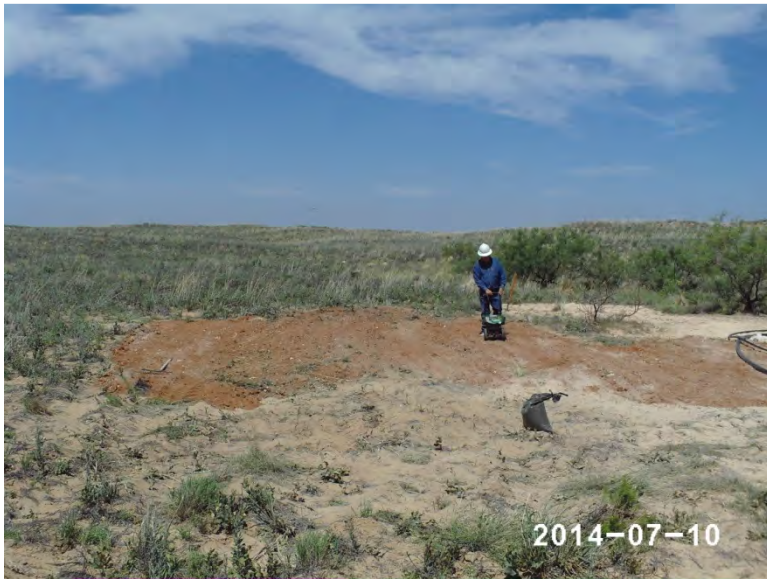
Backfilling pasture, facing northwest

7/10/14



Backfilling lease pad, facing southeast

7/10/14



Seeding pasture area, facing west 7/10/14



Raking seed into soil, facing southwest 7/10/14



Site completed, facing northeast 7/10/14



Site completed, facing north 7/10/14

Appendix E

Final C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Kinney Incorporated	Contact	Edward Saldivar
Address	PO Box 809, Andrews, TX 79714	Telephone No.	432-556-6236
Facility Name	Litman 8 Federal #2	Facility Type	Pump Jack
Surface Owner State	Mineral Owner	BLM	API No. 30-025-33699

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	8	21S	38E	1980	FSL	1980	FWL	Lea

Latitude 32°29'34.62" N Longitude 104°6'39.21" W

NATURE OF RELEASE

Type of Release	Produced water and oil	Volume of Release	4 bbls	Volume Recovered	0 bbls
Source of Release	1 in. nipple on well head	Date and Hour of Occurrence	5/15/14	Date and Hour of Discovery	5/15/14
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A cow rubbed up against 1 in. nipple on well head. Shut valve and installed fence around well head.

Describe Area Affected and Cleanup Action Taken.* A total of 4 barrels of produced water and oil was released over 1,177 square feet of lease pad and pasture land. RECS personnel were on site beginning on June 3rd, 2014 to assess the release. Four points within the release area were sampled at the surface, and three points were sampled with depth. All samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis. Point 1 returned elevated laboratory chloride levels until 5.5 ft bgs. Point 2 returned elevated chloride levels until 1 ft bgs, and Point 3 and Point 4 returned chloride levels below regulatory standards at the surface. GRO readings at all points and all depths returned values of non-detect. DRO readings were elevated at the surface of Point 1 and Point 2, but fell below regulatory standards at depth. Point 3 returned DRO values above regulatory standards at the surface and 6 inches bgs, but at 1 ft bgs returned a DRO value below regulatory standards. Point 4 returned a DRO value of non-detect at the surface. Based on the lab data, a CAP was submitted to and approved by NMOCD on June 25th, 2014. Corrective actions began at the site on July 8th, 2014. Micro-Blaze was applied to the overspray area to wash the vegetation and degrade the hydrocarbons. The remainder of the site was excavated in four parts. The north portion was excavated to 5 ft bgs and 2 ft bgs. The central portion was scraped to 1 ft bgs, and the southern portion, in the pasture, was scraped to 2 ft bgs. All excavated soils to a total of 92 cubic yards of soil were taken to a NMOCD approved facility for disposal. Composite samples from the base of each scrape or excavation were taken to a commercial laboratory to confirm that chloride and TPH values were below regulatory standards. On July 10th, 2014, NMOCD approved the site to be backfilled. A total of 108 cubic yards of caliche and 12 cubic yards of top soil were imported to the site to serve as backfill. A sample of the imported backfill was taken to a commercial laboratory for analysis and returned a chloride reading of non-detect. The lease pad was backfilled with the imported caliche and the pasture was backfilled with the imported top soil. Both areas were contoured to the surrounding location. On July 10th, 2014, the site was seeded with Lea County Mix.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION		
Printed Name: Edward Saldivar	Approved by Environmental Specialist:		
Title: President	Approval Date:	Expiration Date:	
E-mail Address: edward@kinneyincorporated.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-5-14	Phone: (432)556-6236		