1R - 423-18

REPORTS

DATE:

1-18-10

NMOCD Case #:
1R423-18

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

RECEIVED OCD
2010 MAR -4 A 11:50

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length 6'	Width 5'	Depth 4'
Justis	P-2 vent	P	2	25S	37E	Lea	eliminated		

LAND TYPE: BLM ___ STATE X FEE LANDOWNER ___ OTHER ___

Depth to Groundwater 86 feet NMOCD SITE ASSESSMENT RANKING SCORE: 50*

Date Started 1/4/2005 Date Completed 11/5/2009 OCD Witness no

Soil Excavated 200.0 cubic yards Excavation Length 30 Width 30 Depth 6 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: **Sample Date** 1/10/2005, 1/17/2005, 11/5/2009 **Sample Depth** 6 ft, 66 ft, 81 ft

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.1	ND	35.1	1,220
BOTTOM COMP.	0.1	J[6.79]	688	1,700
REMEDIATED BACKFILL	0.1	J[6.31]	132	596
SB #1 66 ft GRAB	6.8	<10.0	<10.0	4,680
SB #1 81 ft GRAB	4.8	<10.0	<10.0	288

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	1120
bottom comp.	6'	1759
SOIL BORING at the junction source (11/5/2009)	3'	868
	6'	598
	9'	877
	12'	892
	15'	917
	18'	1,251
	21'	1,255
	24'	1,354
	27'	1,801
	30'	1,738
	33'	2,050
	36'	2,573
	39'	1,717
	42'	1,372
	45'	1,280
	48'	1,495
	51'	1,836
	54'	1,540
	57'	1,069
	60'	3,345
	63'	1,213
	66'	3,362
	69'	1,646
	72'	1,782
	75'	1,040
	78'	705
	81'	556

General Description of Remedial Action: This junction box was addressed during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted at the former junction box site using a backhoe to collect soil samples at regular intervals creating an excavation with overall dimensions of approximately 30x30x6 ft. Chloride field tests were performed on each sample which yielded elevated concentrations. Organic vapors were measured using a PID which yielded low concentrations. The excavated soil was remediated on site with clean, imported soil. Representative composite samples were collected from the excavation walls, bottom, and remediated backfill and sent to a commercial laboratory for analysis of chloride and TPH. Laboratory analysis confirmed elevated concentrations of chloride and low concentrations of TPH. A 1-ft thick clay barrier was installed at the bottom of the excavation at 6-5 ft below ground surface (BGS) and a compaction test was performed on 5/8/2006. The remediated backfill was returned to the excavation to ground surface and contoured to the surrounding area. An identification plate was placed on the surface at the former junction box site to mark the presence of the clay below. On 10/20/2006, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. To further investigate depth of chloride presence, a soil bore was initiated at the former junction box site on 11/5/2009 with soil samples collected at regular intervals. Chloride field tests were performed on each sample which yielded elevated concentrations. The 66 and 81 ft samples were sent to a commercial laboratory for analysis of chloride and TPH. Lab analysis yielded low concentrations of TPH and elevated chloride concentrations that decreased with depth. The entire borehole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 11/20/2009. **Inactive well 435 ft SW and cattle water pond 980 ft SE.*

ADDITIONAL EVALUATION IS *HIGH* PRIORITY

enclosures: photos, lab results, PID (field) screenings, bore log, cross-section, compaction test, chloride curve

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Joe Gatts SIGNATURE not available COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 1-19-10

*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

Justis P-2 vent

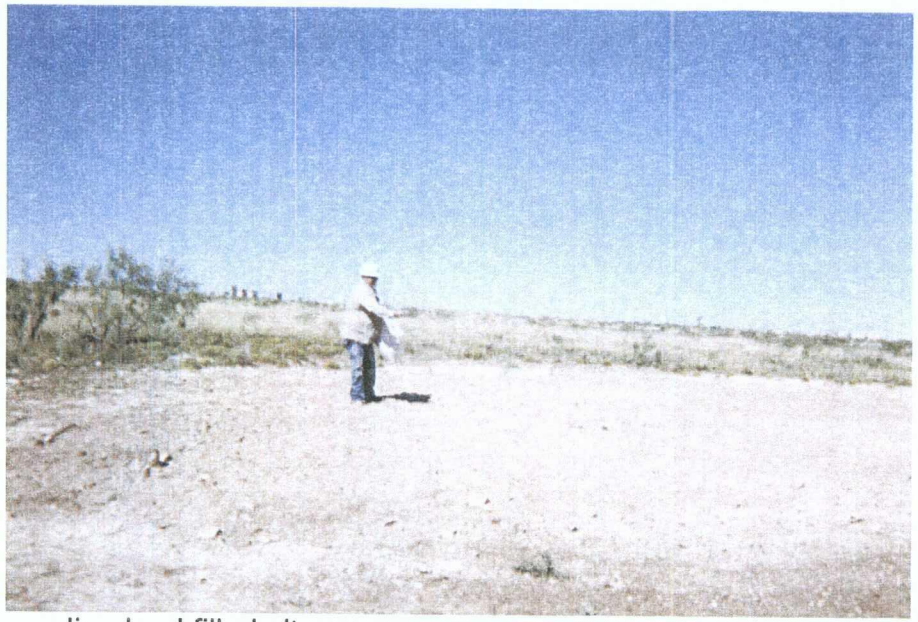
Unit P, Section 2, T25S, R37E

former junction box site, facing north 12/9/2004

installing a clay barrier, facing west 5/5/2006

backfilling final excavation, facing east 5/10/2006

site complete with clay marker, facing north 5/15/2006



seeding backfilled site 10/20/2006

drilling SB #1 at the former junction box site 11/5/2009

plugging SB #1 with bentonite 11/5/2009

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Joe Gatts

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Justis P-2

Project Number: None Given

Location: None Given

Lab Order Number: 5A21002

Report Date: 01/24/05

Rice Operating Co.	Project: Justis P-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Joe Gatts	01/24/05 16:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Remd Backfill	5A21002-01	Soil	01/17/05 15:30	01/21/05 07:50

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Rice Operating Co.	Project: Justis P-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Joe Gatts	01/24/05 16:42

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Remd Backfill (5A21002-01) Soil									
Gasoline Range Organics C6-C12	**J [6.31]**	10.0	mg/kg dry	1	EA52110	01/21/05	01/21/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**132**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**132**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*121 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*127 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: Justis P-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Joe Gatts	01/25/05 12:14

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Remd Backfill (5A21002-01) Soil									
Chloride	**596**	5.00	mg/kg Wet	2	EA52105	01/21/05	01/21/05	SW 846 9253	
% Moisture	**7.2**		%	1	EA52405	01/21/05	01/24/05	% calculation	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA52110 - Solvent Extraction (GC)										
Blank (EA52110-BLK1)				Prepared & Analyzed: 01/21/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*41.7*		*mg/kg*	*50.0*		*83.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.9*		"	*50.0*		*93.8*	*70-130*			
LCS (EA52110-BS1)				Prepared & Analyzed: 01/21/05						
Gasoline Range Organics C6-C12	448	10.0	mg/kg wet	500		89.6	75-125			
Diesel Range Organics >C12-C35	545	10.0	"	500		109	75-125			
Total Hydrocarbon C6-C35	993	10.0	"	1000		99.3	75-125			
Surrogate: 1-Chlorooctane	*51.8*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.7*		"	*50.0*		*99.4*	*70-130*			
Calibration Check (EA52110-CCV1)				Prepared & Analyzed: 01/21/05						
Gasoline Range Organics C6-C12	441		mg/kg	500		88.2	80-120			
Diesel Range Organics >C12-C35	539		"	500		108	80-120			
Total Hydrocarbon C6-C35	980		"	1000		98.0	80-120			
Surrogate: 1-Chlorooctane	*50.0*		"	*50.0*		*100*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.7*		"	*50.0*		*87.4*	*70-130*			
Matrix Spike (EA52110-MS1)	**Source: 5A21003-01**			Prepared & Analyzed: 01/21/05						
Gasoline Range Organics C6-C12	530	10.0	mg/kg dry	582	ND	91.1	75-125			
Diesel Range Organics >C12-C35	600	10.0	"	582	ND	103	75-125			
Total Hydrocarbon C6-C35	1130	10.0	"	1160	ND	97.4	75-125			
Surrogate: 1-Chlorooctane	*58.9*		*mg/kg*	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.6*		"	*50.0*		*115*	*70-130*			
Matrix Spike Dup (EA52110-MSD1)	**Source: 5A21003-01**			Prepared & Analyzed: 01/21/05						
Gasoline Range Organics C6-C12	520	10.0	mg/kg dry	582	ND	89.3	75-125	1.90	20	
Diesel Range Organics >C12-C35	603	10.0	"	582	ND	104	75-125	0.499	20	
Total Hydrocarbon C6-C35	1120	10.0	"	1160	ND	96.6	75-125	0.889	20	
Surrogate: 1-Chlorooctane	*59.7*		*mg/kg*	*50.0*		*119*	*70-130*			
Surrogate: 1-Chlorooctadecane	*58.1*		"	*50.0*		*116*	*70-130*			

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Rice Operating Co.	Project: Justis P-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Joe Gatts	01/25/05 12:14

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA52105 - Water Extraction										
Blank (EA52105-BLK1)				Prepared & Analyzed: 01/21/05						
Chloride	ND	2.50	mg/kg Wet							
Matrix Spike (EA52105-MS1)		Source: 5A20007-01		Prepared & Analyzed: 01/21/05						
Chloride	489	5.00	mg/kg Wet	500	0.00	97.8	80-120			
Matrix Spike Dup (EA52105-MSD1)		Source: 5A20007-01		Prepared & Analyzed: 01/21/05						
Chloride	489	5.00	mg/kg Wet	500	0.00	97.8	80-120	0.00	20	
Reference (EA52105-SRM1)				Prepared & Analyzed: 01/21/05						
Chloride	5050	2.50	mg/kg Wet	5000		101	80-120			
Batch EA52405 - General Preparation (Prep)										
Blank (EA52405-BLK1)				Prepared: 01/21/05 Analyzed: 01/24/05						
% Moisture	0.001		%							
Duplicate (EA52405-DUP1)		Source: 5A21002-01		Prepared: 01/21/05 Analyzed: 01/24/05						
% Moisture	7.3		%		7.2			1.38	20	

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Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Celey D. Keene Date: 01/25/05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy Rascon
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505 393-9174
Fax No: 505 397-1471
Sampler Signature: Joe Ball

Project Name: Justis P-2
Project #:
Project Loc:
PO #:

COPY

SA 21002

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP: TOTAL: TCLP / TOTAL	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-01	REMO Backfill	11/7/05	3:30	1	X									X		X			X						
															1										

Special Instructions:

Sample Containers Intact? Y (N)
Temperature Upon Receipt: 0.5°C
Laboratory Comments: 4oz glass on ice

Relinquished by:	Date	Time	Received by:	Date	Time
Joe Ball	11/19/05	4:30			
Relinquished by:	Date	Time	Received by ELOT: From Drop Box	Date	Time
	11/21/05	5:20	Jeanne McMurrey	01-21-05	0750

Environmental Lab of T[illegible]as
Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co

Date/Time: 01-21-05 @ 0750

Order #: 5A21002

Initials: JMM

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Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	0.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

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ENVIRONMENTAL LAB OF

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Analytical Report

Prepared for:

Joe Gatts
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

Project: Justis P-2
Project Number: None Given
Location: None Given

Lab Order Number: 5A11004

Report Date: 01/17/05

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Justis P-2 Project Number: None Given Project Manager: Joe Gatts	Fax: (505) 397-1471 Reported: 01/17/05 15:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Comp. 6'	5A11004-01	Soil	01/10/05 11:45	01/11/05 07:40
4 Wall Comp.	5A11004-02	Soil	01/10/05 11:30	01/11/05 07:40

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom Comp. 6' (5A11004-01) Soil									
Gasoline Range Organics C6-C12	**J [6.79]**	10.0	mg/kg dry	1	EA51108	01/11/05	01/15/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**688**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**688**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.2 %*	*70-130*		"	"	"	"	
4 Wall Comp. (5A11004-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA51108	01/11/05	01/15/05	EPA 8015M	
Diesel Range Organics >C12-C35	**35.1**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**35.1**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*95.6 %*	*70-130*		"	"	"	"	

Rice Operating Co.	Project: Justis P-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Joe Gatts	01/17/05 15:06

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom Comp. 6' (5A11004-01) Soil									
Chloride	**1700**	20.0	mg/kg Wet	2	EA51412	01/11/05	01/14/05	SW 846 9253	
% Moisture	**11.9**		%	1	EA51113	01/11/05	01/12/05	% calculation	
4 Wall Comp. (5A11004-02) Soil									
Chloride	**1220**	20.0	mg/kg Wet	2	EA51412	01/11/05	01/14/05	SW 846 9253	
% Moisture	**1.2**		%	1	EA51113	01/11/05	01/12/05	% calculation	

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Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51108 - Solvent Extraction (GC)										
Blank (EA51108-BLK1)				Prepared: 01/11/05 Analyzed: 01/14/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.2*		*mg/kg*	*50.0*		*90.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.0*		"	*50.0*		*80.0*	*70-130*			
Blank (EA51108-BLK2)				Prepared: 01/11/05 Analyzed: 01/15/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*44.7*		*mg/kg*	*50.0*		*89.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.6*		"	*50.0*		*89.2*	*70-130*			
LCS (EA51108-BS1)				Prepared: 01/11/05 Analyzed: 01/14/05						
Gasoline Range Organics C6-C12	476	10.0	mg/kg wet	500		95.2	75-125			
Diesel Range Organics >C12-C35	452	10.0	"	500		90.4	75-125			
Total Hydrocarbon C6-C35	928	10.0	"	1000		92.8	75-125			
Surrogate: 1-Chlorooctane	*45.3*		*mg/kg*	*50.0*		*90.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.2*		"	*50.0*		*72.4*	*70-130*			
LCS (EA51108-BS2)				Prepared: 01/11/05 Analyzed: 01/15/05						
Gasoline Range Organics C6-C12	445	10.0	mg/kg wet	500		89.0	75-125			
Diesel Range Organics >C12-C35	507	10.0	"	500		101	75-125			
Total Hydrocarbon C6-C35	952	10.0	"	1000		95.2	75-125			
Surrogate: 1-Chlorooctane	*52.7*		*mg/kg*	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.6*		"	*50.0*		*89.2*	*70-130*			
Calibration Check (EA51108-CCV1)				Prepared: 01/11/05 Analyzed: 01/14/05						
Gasoline Range Organics C6-C12	454		mg/kg	500		90.8	80-120			
Diesel Range Organics >C12-C35	525		"	500		105	80-120			
Total Hydrocarbon C6-C35	979		"	1000		97.9	80-120			
Surrogate: 1-Chlorooctane	*46.7*		"	*50.0*		*93.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		"	*50.0*		*89.4*	*70-130*			

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Rice Operating Co.	Project: Justis P-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Joe Gatts	01/17/05 15:06

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51108 - Solvent Extraction (GC)										
Calibration Check (EA51108-CCV2)				Prepared: 01/11/05 Analyzed: 01/15/05						
Gasoline Range Organics C6-C12	474		mg/kg	500		94.8	80-120			
Diesel Range Organics >C12-C35	488		"	500		97.6	80-120			
Total Hydrocarbon C6-C35	962		"	1000		96.2	80-120			
Surrogate: 1-Chlorooctane	*52.8*		*"*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.0*		*"*	*50.0*		*92.0*	*70-130*			
Matrix Spike (EA51108-MS1)		**Source: 5A10012-13**		Prepared: 01/11/05 Analyzed: 01/14/05						
Gasoline Range Organics C6-C12	555	10.0	mg/kg dry	571	ND	97.2	75-125			
Diesel Range Organics >C12-C35	612	10.0	"	571	ND	107	75-125			
Total Hydrocarbon C6-C35	1170	10.0	"	1140	ND	103	75-125			
Surrogate: 1-Chlorooctane	*50.6*		*mg/kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.8*		*"*	*50.0*		*99.6*	*70-130*			
Matrix Spike (EA51108-MS2)		**Source: 5A10012-21**		Prepared: 01/11/05 Analyzed: 01/15/05						
Gasoline Range Organics C6-C12	514	10.0	mg/kg dry	554	ND	92.8	75-125			
Diesel Range Organics >C12-C35	562	10.0	"	554	ND	101	75-125			
Total Hydrocarbon C6-C35	1080	10.0	"	1110	ND	97.3	75-125			
Surrogate: 1-Chlorooctane	*58.6*		*mg/kg*	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*63.0*		*"*	*50.0*		*126*	*70-130*			
Matrix Spike Dup (EA51108-MSD1)		**Source: 5A10012-13**		Prepared: 01/11/05 Analyzed: 01/14/05						
Gasoline Range Organics C6-C12	526	10.0	mg/kg dry	571	ND	92.1	75-125	5.37	20	
Diesel Range Organics >C12-C35	614	10.0	"	571	ND	108	75-125	0.326	20	
Total Hydrocarbon C6-C35	1140	10.0	"	1140	ND	100	75-125	2.60	20	
Surrogate: 1-Chlorooctane	*52.8*		*mg/kg*	*50.0*		*106*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.5*		*"*	*50.0*		*99.0*	*70-130*			
Matrix Spike Dup (EA51108-MSD2)		**Source: 5A10012-21**		Prepared: 01/11/05 Analyzed: 01/15/05						
Gasoline Range Organics C6-C12	515	10.0	mg/kg dry	554	ND	93.0	75-125	0.194	20	
Diesel Range Organics >C12-C35	534	10.0	"	554	ND	96.4	75-125	5.11	20	
Total Hydrocarbon C6-C35	1050	10.0	"	1110	ND	94.6	75-125	2.82	20	
Surrogate: 1-Chlorooctane	*48.1*		*mg/kg*	*50.0*		*96.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.5*		*"*	*50.0*		*91.0*	*70-130*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: Justis P-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Joe Gatts	01/17/05 15:06

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA51113 - General Preparation (Prep)										
Blank (EA51113-BLK1)				Prepared: 01/11/05 Analyzed: 01/17/05						
% Moisture	0.0		%							
Duplicate (EA51113-DUP1)		Source: 5A10006-01		Prepared: 01/11/05 Analyzed: 01/17/05						
% Moisture	6.9		%		5.9			15.6	20	
Batch EA51412 - Water Extraction										
Blank (EA51412-BLK1)				Prepared: 01/11/05 Analyzed: 01/14/05						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EA51412-MS1)		Source: 5A07008-01		Prepared: 01/11/05 Analyzed: 01/14/05						
Chloride	489	20.0	mg/kg Wet	500	0.00	97.8	80-120			
Matrix Spike Dup (EA51412-MSD1)		Source: 5A07008-01		Prepared: 01/11/05 Analyzed: 01/14/05						
Chloride	500	20.0	mg/kg Wet	500	0.00	100	80-120	2.22	20	
Reference (EA51412-SRM1)				Prepared & Analyzed: 01/14/05						
Chloride	5000		mg/kg	5000		100	80-120			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 1-18-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy Rascon
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505-393-9174 Fax No: 505-397-1471
Sampler Signature: Joe Scott

Project Name: Justis P-2
Project #:
Project Loc:
PO #:

COPY

5A11004

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TOTAL: as per Roy — TDS (GL) SAR/ESP	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030											RUSH TAT (Pre-Schedule)	Standard TAT
-01	Bottom Comp 6'	1/10/05	11:45	1	X									X		X			X																
-02	4 WALL comp	1/10/05	11:30	1	X									X		X			X																

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: -0.5 C
Laboratory Comments: 40z glass

Relinquished by:	Date	Time	Received by:	Date	Time
Joe Scott	1/10/05	4:30			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	1/11/05	5:10	Jeanne McMurray	01-11-05	0740

Drop Box

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 01-11-05 @ 0740

Order #: 5A11004

Initials: JMM

COPY

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-0.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles?	Yes	No	(Not present)
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	(No)	see below
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations: -TDS, Cl, SAR, EC + TPH 8015M was marked on COC

Variance Documentation:

Contact Person: - Roy Rascon Date/Time: 01-11-05 @ 0930 Contacted by: Jeanne McMurrian

Regarding:

analysis request

Corrective Action Taken:

Run only Cl^- + 8015M

RICE OPERATING COMPANY

122 WEST TAYLOR
HOBBS, NEW MEXICO 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE
AIR
LOT NO: 03-2475
EXP. DATE: 2/13/05
METER READING
ACCURACY: 100.'

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 8/13/03
ACCURACY: +or -2%

COPY

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
Justis	P-2	P	2	25	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
15' N. WALL	0.'		
15' S. WALL	0.'		
15' E. WALL	0.'		
15' W. WALL	0.'		
Bottom Comp 6'	0.'		
4 WALL comp	0.'		
REMD. Backfill	0.'		

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

Joe Ratliff — Signature
Environmental Tech. — Title
11/10/05 — Date

Logger:	Lara Weinheimer
Driller:	Harrison & Cooper, Inc. Drilling
Consultant:	N/A - ROC Junction Box Upgrade Plan
Drilling Method:	Air rotary
Start Date:	11/5/2009
End Date:	11/5/2009

RICE OPERATING COMPANY ROC SINCE 1955

Project Name:	Well ID:
Justis jct. P-2	SB #1

Comments: All samples from cuttings. Located at source

Drafted by: Lara Weinheimer

TD = 81 ft GW = 84 ft

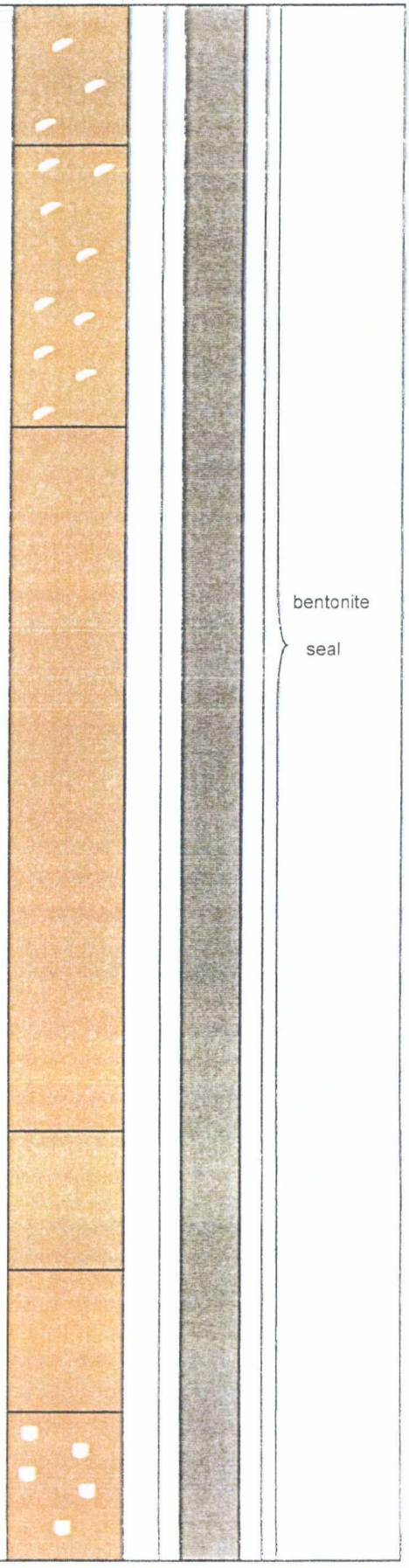
Location: UL/P sec. 2 T25S R37E
Lat: N32°9'21.486" County: Lea
Long: W103°7'39.582" State: NM

Depth (feet)	chloride field tests	LAB	PID	Description
				0 - 6 ft VERY FINE TO FINE SAND; CALICHE brown, dry, no odor
3	868		3.8	
6	598		6.1	
				6 - 9 ft VERY FINE TO FINE SAND; CALICHE orangey brown, very slightly moist, no odor
9	877		7.2	
				9 - 15 ft FINE TO MEDIUM SAND; CALICHE orangey brown, slightly moist, no odor
12	892		6.8	
15	917		4.2	
				15 - 27 ft FINE TO MEDIUM SAND; CALICHE reddish-orange, slightly moist, no odor
18	1251		4.4	
21	1255		3.3	
24	1354		4.7	
27	1801		3.5	

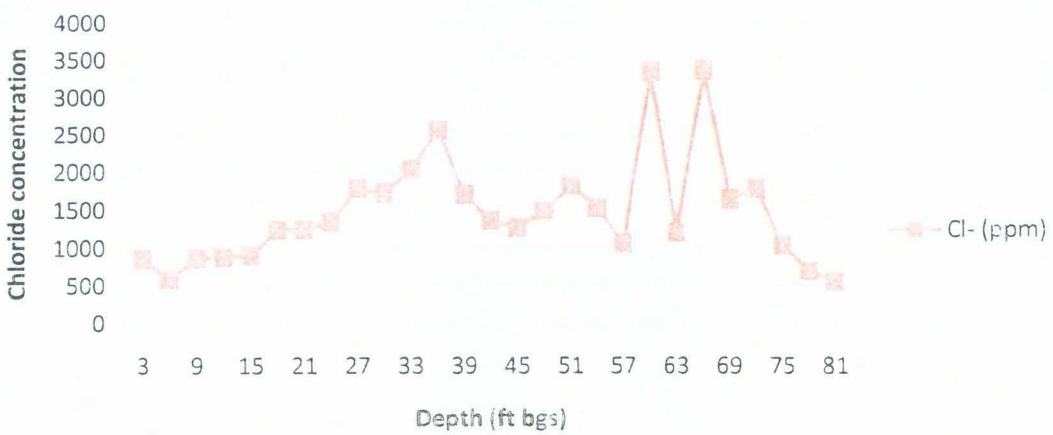
Lithology

Well Construction

				27 - 30 ft FINE TO MEDIUM SAND; CALICHE orangey brown, slightly moist, no odor
30	1738		4.3	
				30 - 36 ft FINE TO MEDIUM SAND; CALICHE light orangey brown, dry, no odor
33	2050		5.6	
36	2573		6.2	
				36 - 51 ft VERY FINE TO FINE SAND orangey brown, slightly moist, no odor
39	1717		3.6	
42	1372		4.7	
45	1280		4.7	
48	1495		8	
51	1836		6	
				51 - 54 ft VERY FINE TO FINE SAND light brown, dry, no odor
54	1540		6.4	
				54 - 57 ft VERY FINE TO FINE SAND orangey brown, slightly moist, no odor
57	1069		6.7	
				57 - 60 ft VERY FINE TO FINE SAND, SANDSTONE orangey brown, slightly moist, no odor
60	3345		7.7	



				60 - 66 ft VERY FINE TO FINE SAND, ROCKY light brown, moist, no odor
63	1213		6.1	
66	3362		6.8	
				66 - 72 ft VERY FINE TO FINE SAND light orangey brown, dry, no odor
69	1646		6.2	
72	1782		5.7	
				72 - 81 ft VERY FINE TO FINE SAND light brown, dry, no odor
75	1040		5.8	
78	705		4	
81	556		4.8	



RICE OPERATING COMPANY

122 West Taylor ~ Hobbs, NM 88240
PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

CK MODEL NO.			
	✓	MODEL: PGM 7300	SERIAL NO: 590-000183
		MODEL: PGM 7300	SERIAL NO: 590-000504
		MODEL: PGM 7600	SERIAL NO: 110-12383
		MODEL: PGM 7600	SERIAL NO: 110-02920

COPY

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO:	924908	EXPIRATION DATE:	7-29-2012
FILL DATE:	7-30-09	METER READING ACCURACY:	99.9

ACCURACY: +/- 2%

SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
BD Justis	jct P-2	P	2	T25S	R37E

SAMPLE ID: soil bore #1

DEPTH	PID	DEPTH	PID	DEPTH	PID	DEPTH	PID
3'	3.8	33'	5.6	63'	6.1		
6'	6.1	36'	6.2	66'	6.8		
9'	7.2	39'	3.6	69'	6.2		
12'	6.8	42'	4.7	72'	5.7		
15'	4.2	45'	4.3	75'	5.8		

DEPTH	PID	DEPTH	PID	DEPTH	PID	DEPTH	PID
18'	4.4	48'	5.0	78'	4.0		
21'	3.3	51'	6.0	81'	4.8		
24'	4.7	54'	6.4				
27'	3.5	57'	6.7				
30'	4.3	60'	7.7				

I verify that I have calibrated the above instrument in accordance to the manufacture's operation manual.

Signature _____ Date 11-5-09

SITE MAP

N ↑

CARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

COPY

Receiving Date: 11/06/09
Reporting Date: 11/11/09
Project Owner: NOT GIVEN
Project Name: JUSTIS JCT P-2
Project Location: JUSTIS JCT P-2

Sampling Date: 11/05/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		11/10/09	11/10/09	11/10/09
H18680-1	SB#1 @ 66'	<10.0	<10.0	4,680
H18680-2	SB#1 @ 81'	<10.0	<10.0	288
Quality Control		448	508	500
True Value QC		500	500	500
% Recovery		89.6	102	100
Relative Percent Difference		0.5	1.5	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-Cl B
*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

Chemist

11/13/09
Date

H18680 TCL RICE

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Rice Operating Company	BILL TO
Project Manager: Hack Conder	P.O. #:
Address: 122 West Taylor	Company:
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: 393-9174 Fax #: 397-1471	Address:
Project #: Project Owner:	City:
Project Name: Justis Unit P-2	State: Zip:
Project Location: Justis Unit P-2	Phone #:
Sampler Name: Lara Weinheimer	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides	TPH 8015 M	BTEX	Texas TPH
H10880-1	BH @ 6'	G	1			✓					✓		11-5-09	9:50	✓	✓		
-2	BH @ 8'	G	1			✓					✓		11-5-09	10:00	✓	✓		

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: L. Weinheimer	Date: 11-6-09 Time: 9:20	Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☑ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool: Yes ☐ No ☐ Intact: Yes ☐ No ☐	CHECKED BY: (Initials)	REMARKS: email results Hconder@riceswd.com; jpurvis@riceswd.com; Lweinheimer@riceswd.com

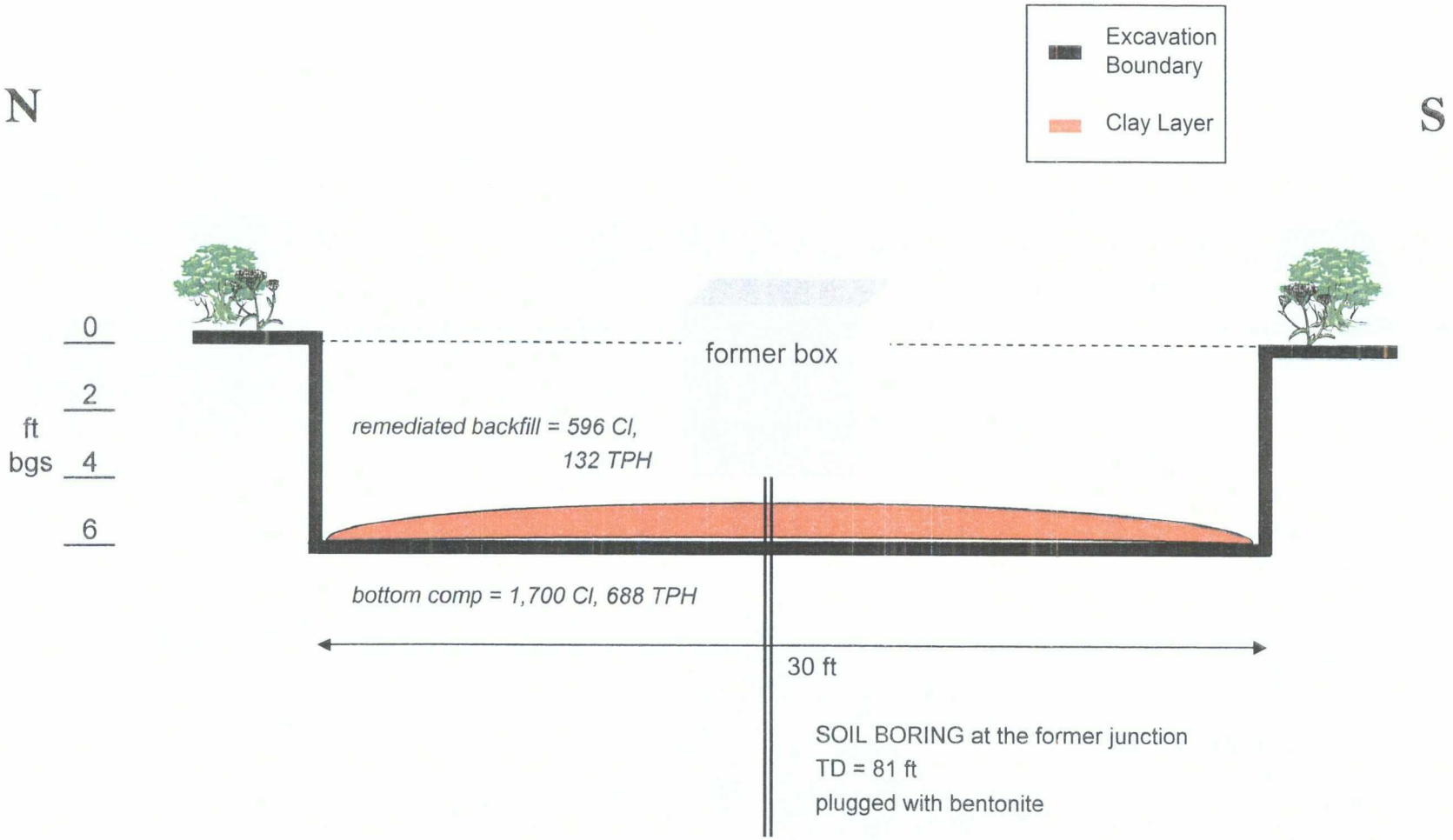
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

NEED SAMPLES BACK, PLEASE

Justis P-2 vent

Unit 'P', Section 2, T25S, R37E

Excavation Cross-Section



LABORATORY TEST REPORT

PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827

AASHTO R18

DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS. III, P.E./P.S.

To: Rice Operating
Attn: Carolyn Haynes
122 W. Taylor
Hobbs, NM 88240

Material: Red Clay

Test Method: ASTM: D 2922

Project: General Information
Project No. 2006.1005

Date of Test: May 8, 2006

Depth: 5' Below Finished Subgrade

Depth of Probe: 6"

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG 5	Justis P-2 - 15' N. & 15' E. of the SW Corner	95.4	22.4	

Control Density: 105.9
ASTM: D 698

Optimum Moisture: 17.6

Required Compaction: 95%

Lab No.: 06 2861-2862

PETTIGREW & ASSOCIATES

Copies To: Rice

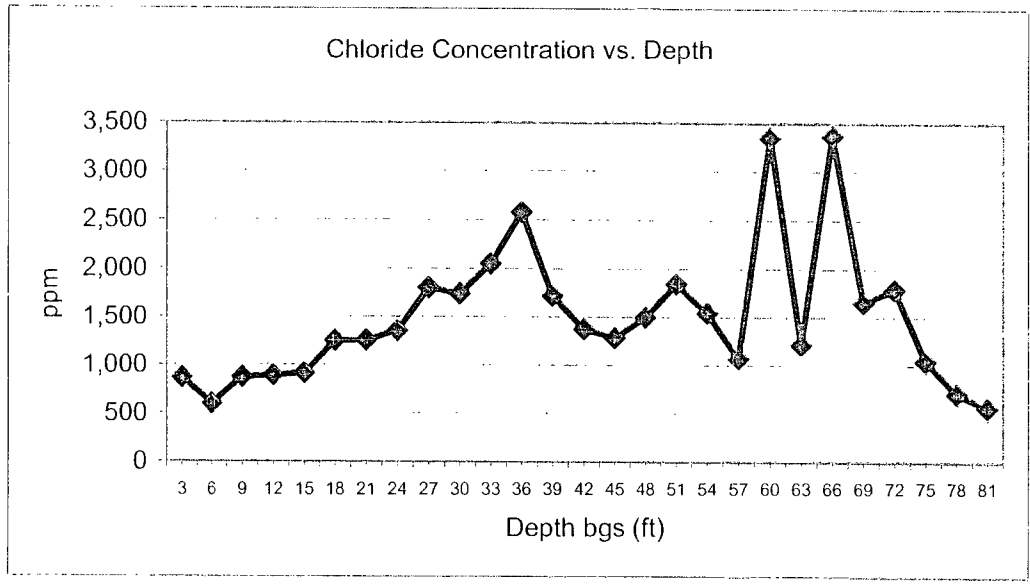
BY: _____ P.E.

Justis P-2 vent

Unit 'P', Sec. 2, T17S, R35E

Soil Bore samples at the junction (source)

Depth bgs (ft)	[Cl-] ppm
3	868
6	598
9	877
12	892
15	917
18	1,251
21	1,255
24	1,354
27	1,801
30	1,738
33	2,050
36	2,573
39	1,717
42	1,372
45	1,280
48	1,495
51	1,836
54	1,540
57	1,069
60	3,345
63	1,213
66	3,362
69	1,646
72	1,782
75	1,040
78	705
81	556



Groundwater = 86 ft