1R - 425-31

REPORTS

DATE:

2006

Van Jct K-6

1R-425-31

Final Report

RECEIVED

AUG - 3 2007

Environmental Bureau
Oil Conservation Division

Closure

RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Vacuum	jct. K-6	K	6	18S	35E	Lea	no box--System abandonment		

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

Depth to Groundwater 95 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 8/23/2005 Date Completed 5/23/2006 NMOCD Witness no

Soil Excavated 44 cubic yards Excavation Length 10 Width 10 Depth 12 feet

Soil Disposed 36 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS:

Sample Date 9/21/2005, 5/23/2006 **Sample Depth** 12, 45 ft

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

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.0	<10.0	<10.0	1820
BOTTOM COMP.	0.0	<10.0	<10.0	435
BACKFILL	0.0	<10.0	<10.0	1050
SOIL BORE @ 45 ft	0.0	<10.0	<10.0	178

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
4-wall comp.	n/a	1367
bottom comp.	12	275
backfill comp.	n/a	806
soil bore	25	579
	30	375
	35	209
	40	220
	45	169

General Description of Remedial Action: This junction box was addressed as part of the Vacuum SWD System Abandonment. After the box was removed, delineation trenches were made at and around the former junction using a trackhoe. The excavation was extended to 10 x 10 x 12-ft (to the grass line) where composite samples were collected for lab confirmation. Hydrocarbon was not present within the lab's detection limits, meeting NMOCD guidelines. Chloride concentrations were consistent to 12 ft BGS. The excavated soil was blended on site and then backfilled into the excavation to approx. 8 ft BGS. The remaining excavated soil was disposed of off-site and clean, imported topsoil was brought in as replacement. The remainder of the excavation was backfilled with the clean, imported fill and contoured to the surrounding surface. On 5/23/06, a soil bore was conducted to further investigate chloride concerns. Chloride concentrations declined throughout the bore and drilling was stopped at 45 ft BGS where chloride was <250 ppm and the hole was plugged with bentonite. The disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate.

enclosures: photos, lab results, PID screenings, chloride graph, disposal manifests, soil bore log, cross-section

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

SITE SUPERVISOR Roy Rascon SIGNATURE Roy R. Rascon COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 7/31/2006 TITLE Project Scientist

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

COPY

Ticket # 2495

Lease Operator/Shipper/Company: Rice

Lease Name: ~~EMC Unit~~ VAC JCT K-6

Transporter Company: RWI Time _____ AM/PM

Date: 2/15/06 Vehicle No. # 79 Driver No. _____

Charge To: Rice

TYPE OF MATERIAL

☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	☑ Contaminated Soil	☐ C-117 No.:
☐ Other Materials	☐ BS&W Content:	

Description: O/D

☐ JETOUT
☐ CALLOUT

VOLUME OF MATERIAL BBLS. 12 YARDS

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: _____

FACILITY REPRESENTATIVE: _____

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 2541

Lease Operator/Shipper/Company: Rice

Lease Name: ~~EMC~~ VAC K-6 JCT

Transporter Company: RWI **Time** _____ **AM/PM**

Date: 2/15/06 **Vehicle No.** # 79 **Driver No.** _____

Charge To: Rice

TYPE OF MATERIAL

☐ Produced Water	☐ Drilling Fluids	☐ Completion Fluids
☐ Tank Bottoms	☒ Contaminated Soil	☐ C-117 No.:
☐ Other Materials	☐ BS&W Content:	

Description: C/O

☐ JETOUT
☐ CALLOUT

VOLUME OF MATERIAL BBLS. 12 YARDS

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DRIVER: _____

FACILITY REPRESENTATIVE: _____

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, New Mexico 88231

(505) 394-2511

Ticket # 2587

Lease Operator/Shipper/Company: Rice

Lease Name: ~~EAU~~ VAC K-6 JCT

Transporter Company: RWJ **Time** _____ **AM/PM**

Date: 2/15/06 **Vehicle No.** # 79 **Driver No.** _____

Charge To: Rice

TYPE OF MATERIAL

☐	Produced Water	☐	Drilling Fluids	☐	Completion Fluids
☐	Tank Bottoms	☒	Contaminated Soil	☐	C-117 No.:
☐	Other Materials	☐	BS&W Content:		

Description: O/D

☐ JETOUT
☐ CALLOUT

VOLUME OF MATERIAL BBLS. 12 YARDS

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. 6901, ET SEQ., THE NM HEALTH AND SAF. CODE 361.001 ET SEQ., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: [signature]

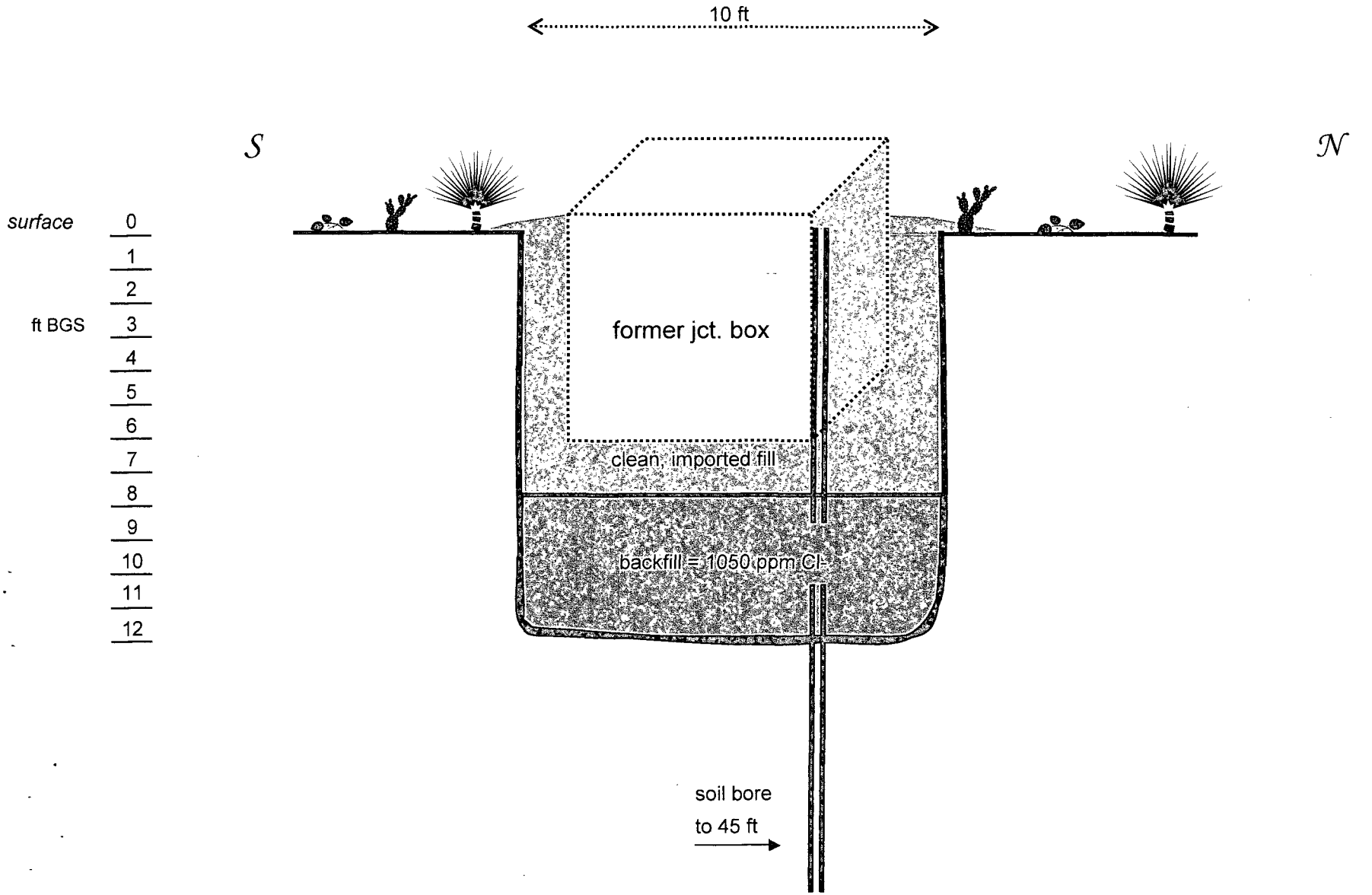
FACILITY REPRESENTATIVE: Kelly Roach

Vacuum jct. K-6

10 x 10 x 12 ft

Excavation Cross-Section

*** not to scale ***



Vacuum jct. K-6

jct. box site with box removed; before excavation 6/27/05

delineation and excavation with trackhoe 8/23/05

10 x 10 x 12-ft-deep excavation 9/21/05

compacting backfill 2/15/06

completing backfill; spreading topsoil 2/16/06

soil bore delineation 5/23/06

raking seed at backfilled site 2/22/06

plugging soil bore with bentonite 5/23/06

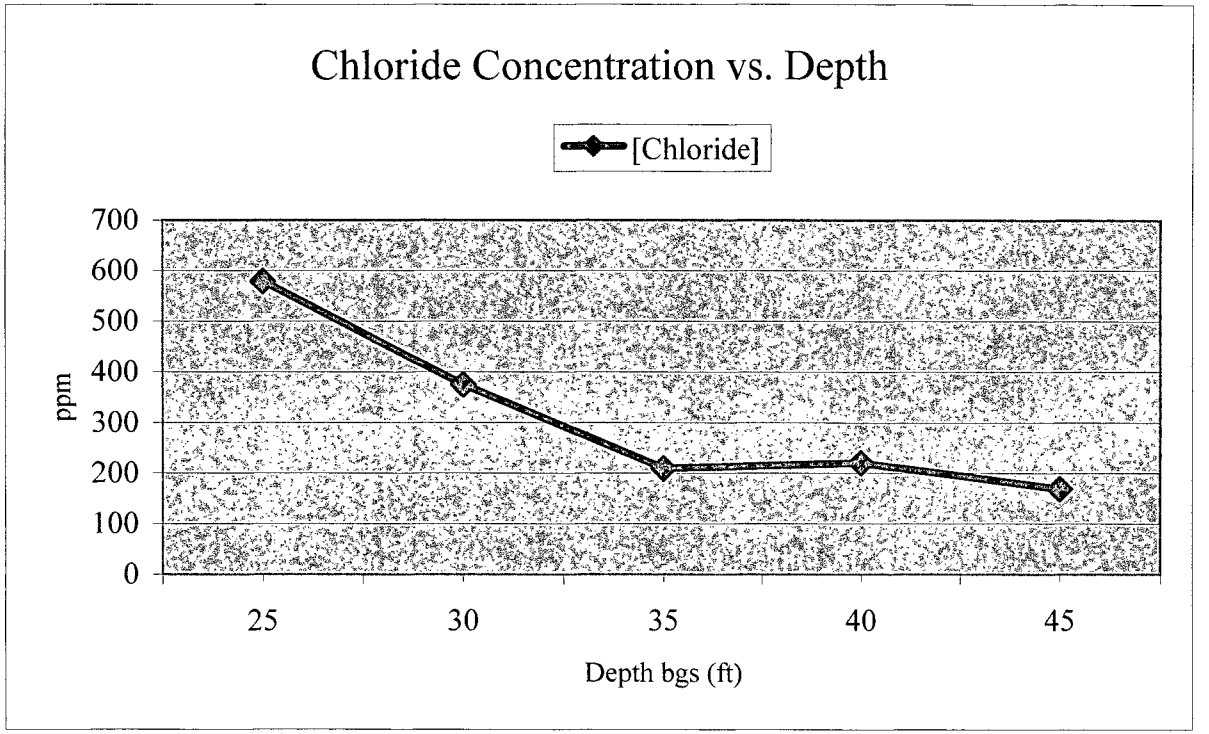
Vacuum jct. K-6

unit 'K', Sec. 6, T18S, R35E

SOIL BORE *5/23/2006*

Depth bgs (ft)	[Cl] ppm
25	579
30	375
35	209
40	220
45	169

Groundwater = 95 ft



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: 04-2747
EXP. DATE: 8-1-06
METER READING
ACCURACY: 100.0

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 2-1-05
ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
VAC	JCT K-6	K	6	18S	35E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
4-WALL Comp. 10'X10'X12'			
	0.0		
BTTM 5 PT Comp @ 12'			
	0.0		
Blended Soil	Backfill		
	0.0		

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

Roy R. Rascon
Signature

9-21-05
Date

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

COPY

Analytical Report

Prepared for:

Roy Rascon
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

Project: Vacuum Jct. K-6
Project Number: None Given
Location: None Given

Lab Order Number: 5I22001

Report Date: 09/27/05

Rice Operating Co.	Project: Vacuum Jct. K-6	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/27/05 08:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
10'X10' 4 Wall Comp.	5I22001-01	Soil	09/21/05 10:45	09/22/05 08:00
Blended Soil	5I22001-02	Soil	09/21/05 10:48	09/22/05 08:00
Bottom 5 PT 10'X10'X12'@ 12'	5I22001-03	Soil	09/21/05 10:12	09/22/05 08:00

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

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10'X10' 4 Wall Comp. (5I22001-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52304	09/23/05	09/26/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*75.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.4 %*	*70-130*		"	"	"	"	
Blended Soil (5I22001-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52304	09/23/05	09/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	
Bottom 5 PT 10'X10'X12'@ 12' (5I22001-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52304	09/23/05	09/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*95.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	

Rice Operating Co.	Project: Vacuum Jct. K-6	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/27/05 08:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10'X10' 4 Wall Comp. (5I22001-01) Soil									
Chloride	**1820**	25.0	mg/kg	50	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	**4.2**	0.1	%	1	EI52301	09/22/05	09/23/05	% calculation	
Blended Soil (5I22001-02) Soil									
Chloride	**1050**	20.0	mg/kg	40	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	**4.5**	0.1	%	1	EI52301	09/22/05	09/23/05	% calculation	
Bottom 5 PT 10'X10'X12'@ 12' (5I22001-03) Soil									
Chloride	**435**	10.0	mg/kg	20	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	**5.9**	0.1	%	1	EI52301	09/22/05	09/23/05	% calculation	

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

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 EI52304 - Solvent Extraction (GC)										
Blank (EI52304-BLK1)				Prepared & Analyzed: 09/23/05						
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	*44.0*		*mg/kg*	*50.0*		*88.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.7*		*"*	*50.0*		*75.4*	*70-130*			
LCS (EI52304-BS1)				Prepared & Analyzed: 09/23/05						
Gasoline Range Organics C6-C12	404	10.0	mg/kg wet	500		80.8	75-125			
Diesel Range Organics >C12-C35	489	10.0	"	500		97.8	75-125			
Total Hydrocarbon C6-C35	893	10.0	"	1000		89.3	75-125			
Surrogate: 1-Chlorooctane	*44.8*		*mg/kg*	*50.0*		*89.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.3*		*"*	*50.0*		*96.6*	*70-130*			
Calibration Check (EI52304-CCV1)				Prepared: 09/23/05 Analyzed: 09/24/05						
Gasoline Range Organics C6-C12	413		mg/kg	500		82.6	80-120			
Diesel Range Organics >C12-C35	443		"	500		88.6	80-120			
Total Hydrocarbon C6-C35	856		"	1000		85.6	80-120			
Surrogate: 1-Chlorooctane	*45.3*		*"*	*50.0*		*90.6*	*0-200*			
Surrogate: 1-Chlorooctadecane	*44.1*		*"*	*50.0*		*88.2*	*0-200*			
Matrix Spike (EI52304-MS1)	**Source: 5I22001-01**			Prepared: 09/23/05 Analyzed: 09/24/05						
Gasoline Range Organics C6-C12	457	10.0	mg/kg dry	522	ND	87.5	75-125			
Diesel Range Organics >C12-C35	494	10.0	"	522	ND	94.6	75-125			
Total Hydrocarbon C6-C35	951	10.0	"	1040	ND	91.4	75-125			
Surrogate: 1-Chlorooctane	*55.3*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.8*		*"*	*50.0*		*104*	*70-130*			
Matrix Spike Dup (EI52304-MSD1)	**Source: 5I22001-01**			Prepared: 09/23/05 Analyzed: 09/24/05						
Gasoline Range Organics C6-C12	463	10.0	mg/kg dry	522	ND	88.7	75-125	1.30	20	
Diesel Range Organics >C12-C35	500	10.0	"	522	ND	95.8	75-125	1.21	20	
Total Hydrocarbon C6-C35	963	10.0	"	1040	ND	92.6	75-125	1.25	20	
Surrogate: 1-Chlorooctane	*54.9*		*mg/kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.3*		*"*	*50.0*		*101*	*70-130*			

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 EI52301 - General Preparation (Prep)										
Blank (EI52301-BLK1)				Prepared: 09/22/05 Analyzed: 09/23/05						
% Solids	100		%							
Duplicate (EI52301-DUP1)		**Source: 5I21013-01**		Prepared: 09/22/05 Analyzed: 09/23/05						
% Solids	86.5		%		86.1			0.464	20	
Duplicate (EI52301-DUP2)		**Source: 5I22008-07**		Prepared: 09/22/05 Analyzed: 09/23/05						
% Solids	99.4		%		98.9			0.504	20	
Duplicate (EI52301-DUP3)		**Source: 5I22019-03**		Prepared: 09/22/05 Analyzed: 09/23/05						
% Solids	97.6		%		97.8			0.205	20	
Duplicate (EI52301-DUP4)		**Source: 5I22021-18**		Prepared: 09/22/05 Analyzed: 09/23/05						
% Solids	90.8		%		90.6			0.221	20	
Batch EI52305 - Water Extraction										
Blank (EI52305-BLK1)				Prepared: 09/22/05 Analyzed: 09/23/05						
Chloride	ND	0.500	mg/kg							
LCS (EI52305-BS1)				Prepared: 09/22/05 Analyzed: 09/23/05						
Chloride	9.07		mg/L	10.0		90.7	80-120			
Calibration Check (EI52305-CCV1)				Prepared: 09/22/05 Analyzed: 09/23/05						
Chloride	9.29		mg/L	10.0		92.9	80-120			
Duplicate (EI52305-DUP1)		**Source: 5I21013-01**		Prepared: 09/22/05 Analyzed: 09/23/05						
Chloride	90.7	0.500	mg/kg		91.3			0.659	20	

Notes and Definitions

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: 9-27-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
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: Ray 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: Ray R. Rascon

Project Name: VAC JCT K-6
Project #:
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO3	Preservative: HCl	Preservative: NaOH	Preservative: H2SO4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TDS (EC) SAR / ESP	Analyze For: TOTAL: TDS (EC) 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	IRUSH TAT (Pre-Schedule)
5321200																									
-01	10'X10' 4 WALL Comp.	9-21-05	1045A	1	✓									✓		✓				✓					
-02	Blended Soil	9-21-05	1098A	1	✓									✓		✓				✓					
-03	BTTM 5 PT 10X10X12 @ 12'	9-21-05	1012A	1	✓									✓		✓				✓					

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: -1.0
Laboratory Comments: labels/seals

Relinquished by:	Date	Time	Received by:	Date	Time
Ray R. Rascon	9-21-05	1220		9/21	18:00
			Received by ELOT:	Date	Time
	9/22	8:00		9/22/05	8:00

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

Client: Rice Op.

Date/Time: 9/22/05 8:00

Order #: 5E22001

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-1.0 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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_____

_____

_____

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_____

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240
Phone: (505) 393-9174 Fax: (505) 397-1471

VOC FIELD TEST REPORT FORM

PID METER READING & CALIBRATION

CK.	☐	MODEL: PGM 761S	SERIAL NO: 104412
MODEL	☐	MODEL: PGM 761S	SERIAL NO: 104490
NO.	☐	MODEL: PGM 7600	SERIAL NO: 110-12383

LOT NO:_____ GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

FILL DATE:_____ EXP. DATE:

ACCURACY: +/- 2% METER READING ACCURACY: 999

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
Vac	Jct K-6	K	6	18S	35E

Bore #1 NE of ROC marker 5'

SAMPLE	PID RESULTS	SAMPLE	PID RESULTS
5' bgs	0		
10' bgs	0		
15' bgs	0		
20' bgs	0		
25' bgs	0		
30' bgs	0		
35' bgs	0		
40' bgs	0		
45' bgs	0		

I verify that I have calibrated the above instrument in accordance to the manufacure operation manual.

SIGNATURE: Melanie Franko DATE: 5/23/06

Soil Bore

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

COPY

Analytical Report

Prepared for:

Kristin Farris-Pope
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

Project: Vac. K-6
Project Number: None Given
Location: None Given

Lab Order Number: 6E25003

Report Date: 05/30/06

Rice Operating Co.	Project: Vac. K-6	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/30/06 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
45' bgs	6E25003-01	Soil	05/23/06 11:46	05/25/06 08:00

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

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
45' bgs (6E25003-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EE62508	05/25/06	05/26/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*98.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*102 %*	*70-130*		"	"	"	"	

Rice Operating Co.	Project: Vac. K-6	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/30/06 14:27

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
45' bgs (6E25003-01) Soil									
Chloride	**178**	10.0	mg/kg	20	EE62605	05/26/06	05/26/06	EPA 300.0	
% Moisture	**1.6**	0.1	%	1	EE62607	05/25/06	05/26/06	% 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 EE62508 - Solvent Extraction (GC)										
Blank (EE62508-BLK1)				Prepared & Analyzed: 05/25/06						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon nC6-nC35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*44.0*		*mg/kg*	*50.0*		*88.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.1*		*"*	*50.0*		*92.2*	*70-130*			
LCS (EE62508-BS1)				Prepared & Analyzed: 05/25/06						
Carbon Ranges C6-C12	539	10.0	mg/kg wet	500		108	75-125			
Carbon Ranges C12-C28	481	10.0	"	500		96.2	75-125			
Total Hydrocarbon nC6-nC35	1020	10.0	"	1000		102	75-125			
Surrogate: 1-Chlorooctane	*47.6*		*mg/kg*	*50.0*		*95.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.0*		*"*	*50.0*		*88.0*	*70-130*			
Calibration Check (EE62508-CCV1)				Prepared: 05/25/06 Analyzed: 05/26/06						
Carbon Ranges C6-C12	283		mg/kg	250		113	80-120			
Carbon Ranges C12-C28	295		"	250		118	80-120			
Total Hydrocarbon nC6-nC35	578		"	500		116	80-120			
Surrogate: 1-Chlorooctane	*48.0*		*"*	*50.0*		*96.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.6*		*"*	*50.0*		*95.2*	*70-130*			
Matrix Spike (EE62508-MS1)	**Source: 6E24001-07**			Prepared & Analyzed: 05/25/06						
Carbon Ranges C6-C12	578	10.0	mg/kg dry	538	ND	107	75-125			
Carbon Ranges C12-C28	462	10.0	"	538	ND	85.9	75-125			
Total Hydrocarbon nC6-nC35	1040	10.0	"	1080	ND	96.3	75-125			
Surrogate: 1-Chlorooctane	*51.6*		*mg/kg*	*50.0*		*103*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.3*		*"*	*50.0*		*96.6*	*70-130*			

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 EE62508 - Solvent Extraction (GC)										
Matrix Spike Dup (EE62508-MSD1)	**Source: 6E24001-07**		Prepared & Analyzed: 05/25/06							
Carbon Ranges C6-C12	586	10.0	mg/kg dry	538	ND	109	75-125	1.37	20	
Carbon Ranges C12-C28	471	10.0	"	538	ND	87.5	75-125	1.93	20	
Total Hydrocarbon nC6-nC35	1060	10.0	"	1080	ND	98.1	75-125	1.90	20	
Surrogate: 1-Chlorooctane	*52.3*		*mg/kg*	*50.0*		*105*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.7*		*"*	*50.0*		*97.4*	*70-130*			

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 EE62605 - Water Extraction										
Blank (EE62605-BLK1)				Prepared & Analyzed: 05/26/06						
Chloride	ND	0.500	mg/kg							
LCS (EE62605-BS1)				Prepared & Analyzed: 05/26/06						
Chloride	10.0	0.500	mg/kg	10.0		100	80-120			
Calibration Check (EE62605-CCV1)				Prepared & Analyzed: 05/26/06						
Chloride	10.2		mg/kg	10.0		102	80-120			
Duplicate (EE62605-DUP1)		**Source: 6E22004-32**		Prepared & Analyzed: 05/26/06						
Chloride	13.3	5.00	mg/kg		14.6			9.32	20	
Duplicate (EE62605-DUP2)		**Source: 6E23010-02**		Prepared & Analyzed: 05/26/06						
Chloride	70.3	10.0	mg/kg		66.8			5.11	20	
Matrix Spike (EE62605-MS1)		**Source: 6E22004-32**		Prepared & Analyzed: 05/26/06						
Chloride	103	5.00	mg/kg	100	14.6	88.4	80-120			
Matrix Spike (EE62605-MS2)		**Source: 6E23010-02**		Prepared & Analyzed: 05/26/06						
Chloride	257	10.0	mg/kg	200	66.8	95.1	80-120			
Batch EE62607 - General Preparation (Prep)										
Blank (EE62607-BLK1)				Prepared: 05/25/06 Analyzed: 05/26/06						
% Solids	100		%							
Duplicate (EE62607-DUP1)		**Source: 6E24016-01**		Prepared: 05/25/06 Analyzed: 05/26/06						
% Solids	96.6		%		96.8			0.207	20	

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 EE62607 - General Preparation (Prep)										
Duplicate (EE62607-DUP2)		**Source: 6E24016-21**		Prepared: 05/25/06 Analyzed: 05/26/06						
% Solids	99.6		%		99.9			0.301	20	
Duplicate (EE62607-DUP3)		**Source: 6E24016-41**		Prepared: 05/25/06 Analyzed: 05/26/06						
% Solids	99.7		%		99.5			0.201	20	
Duplicate (EE62607-DUP4)		**Source: 6E25007-02**		Prepared: 05/25/06 Analyzed: 05/26/06						
% Solids	90.8		%		89.7			1.22	20	

Notes and Definitions

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: 5-30-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
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: Kristen Farris Pope
Company Name: Rice Operating Company
Company Address: 122 W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: (505)393-9174 Fax No:
Sampler Signature: Melanie Travis

Project Name: Lac K-6
Project #:
Project Loc:
PO #:

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: TDS/CL/SAR/EC	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	TOTAL:	RUSH TAT (Pre-Schedule)
42420	45' Dogs	5/23/10	11:40	1	X									X		X			X						

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Melanie Travis	5/24	8:00		5/24	17:30
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	5/25	8:00		5/25/10	8:00

Sample Containers Intact? Y N
Temperature Upon Receipt: 3.0
Laboratory Comments: 2 glass

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

Client: Pure OP.

Date/Time: 5/25/06 8:00

Order #: UE25023

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.0 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:

Soil Bore

System: Vac Location: Jct. K-6 GW:95 Landowner:State Lease to Giles M Lee

Soil Bore: Bore # 1 5' NE of Marker GPS Coord. System UTM

UL/ K Sec.6 T18S R 35E Nad 27 Lat. & Long. 32*46.537N 103* 30.101 W

Depth	Cl.		PID		Color	Time
5'	687		0			11:22
10'	581		0			11:25
15'	285		0			11:28
20'	428		0			11:31
25'	579		0			11:34
30'	375		0			11:37
35'	209		0			11:40
40'	220		0			11:43
45'	169	LAB 178	0			11:46

Notes: Sent 45' sample to the lab for Cl and TPH. Location cleaned up at 45' stopped drilling and plugged hole with bentonite plug.

Signature Melanie Franco Date 5/23/06