1R- 425-47

REPORTS

DATE:

8-8-08

2-2
21

Vacuum Oxy Phillips 'K' EOL

IR425-08
47

Disclosure

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Vacuum	Oxy Phillips 'K' EOL	H	27	17S	35E	Lea	eliminated		

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

Depth to Groundwater 75 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 7/26/2005 Date Completed 4/20/2006 OCD Witness no

Soil Excavated 533 cubic yards Excavation Length 30 Width 40 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: **Sample Date** 9/20/2005 Sample Depth 12 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	Chlorides mg/kg
4-WALL COMP.	0.0	<10.0	<10.0	851
BOTTOM COMP.	0.0	<10.0	<10.0	1910
BACKFILL	0.0	<10.0	<10.0	1060

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	803
bottom comp.	12'	2078
backfill comp.	n/a	746
vertical delineation trench at former junction (source)	3'	233
	4'	422
	5'	430
	6'	469
	7'	448
	8'	479
	9'	664
	10'	559
	11'	872
	12'	1539

General Description of Remedial Action: This junction box was eliminated during the pipeline/upgrade program. After the box was removed, an investigation was conducted using a backhoe to collect samples at regular intervals producing a 10x10x12-ft-deep hole. Chloride field tests were performed on each sample, which yielded elevated levels that did not relent with depth. Organic vapors were measured using a PID, which yielded low concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride and TPH. The site was then excavated to a 30x40x12-ft-deep hole collecting soil samples at regular intervals. Chloride field tests yielded elevated levels of chloride that did not relent with depth. Organic vapors were measured using a PID, which yielded low concentrations. The excavated soil was blended on-site and returned to the excavation up to 6 ft below ground surface. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill was used to backfill the excavation to ground surface. An identification plate was placed on the surface at the former junction site to mark the presence of the clay below. Imported, clean top soil was used as a top cap and to contour to the surrounding area. On 4/24/2006, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. NMOCD was notified of potential groundwater impact on 8/7/2008.

ADDITIONAL EVALUATION IS MEDIUM PRIORITY

enclosures: photos, cross-section, lab results, PID screening, clay test, chloride curve

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

SITE SUPERVISOR Roy Rascon SIGNATURE not available COMPANY RICE OPERATING COMPANY

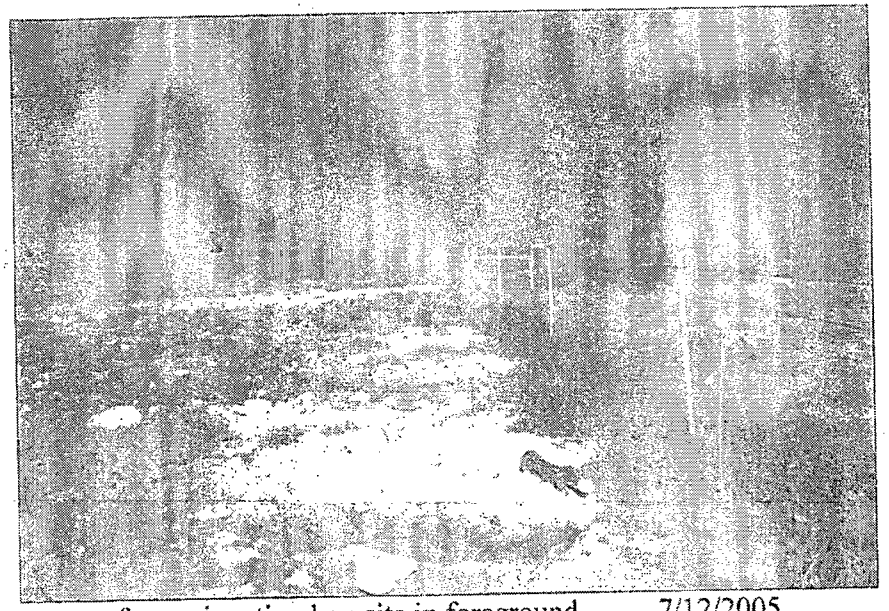
REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 8-8-08

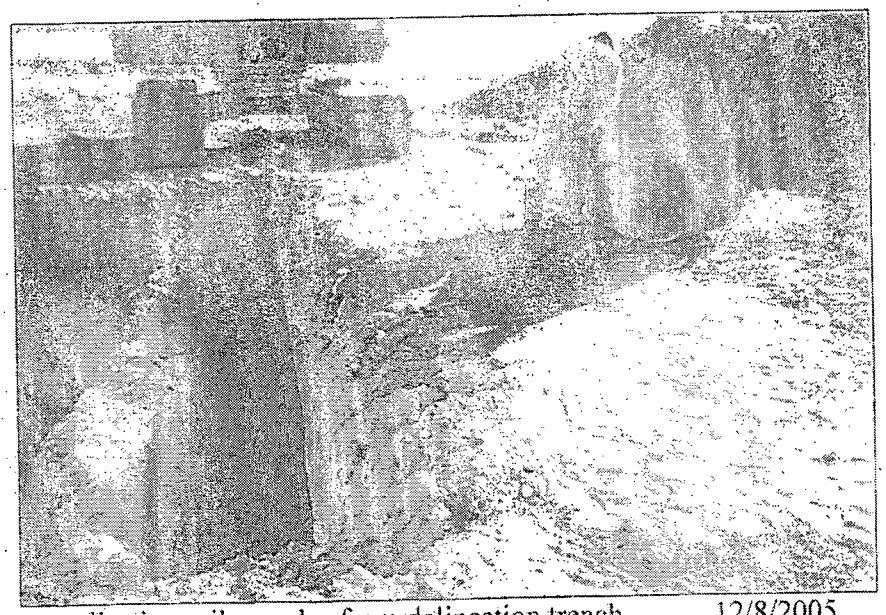
*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

Vacuum Oxy 'K' EOL

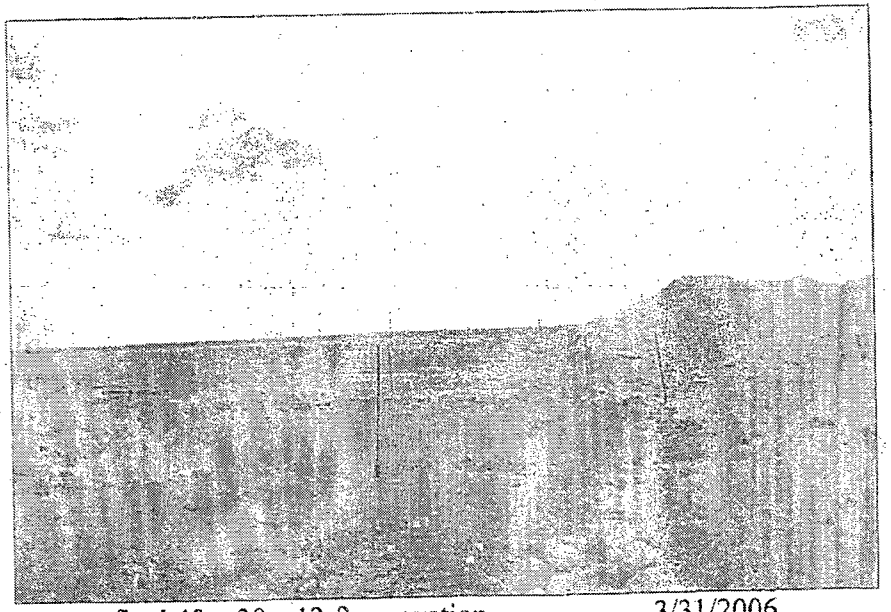
Unit H, Section 27, T17S, R35E



former junction box site in foreground 7/12/2005

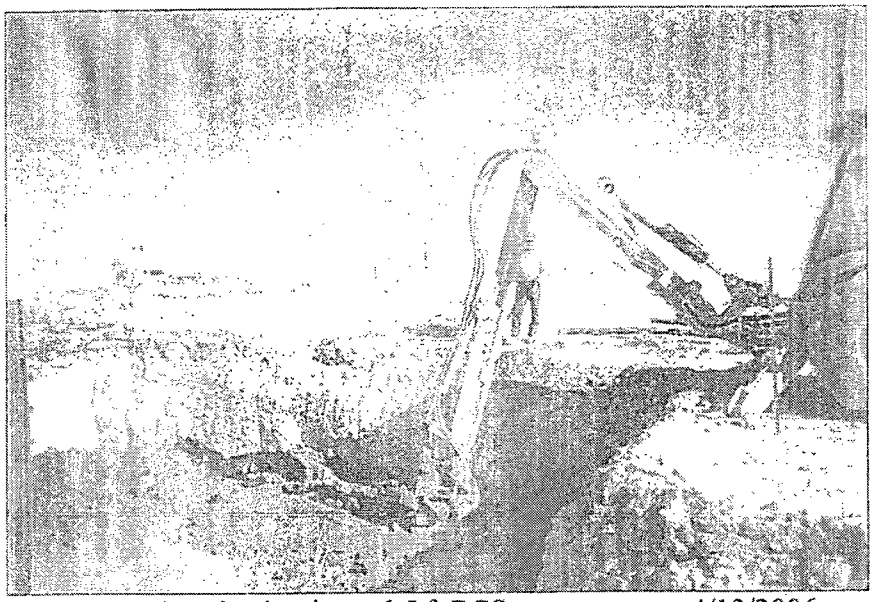


collecting soil samples from delineation trench 12/8/2005



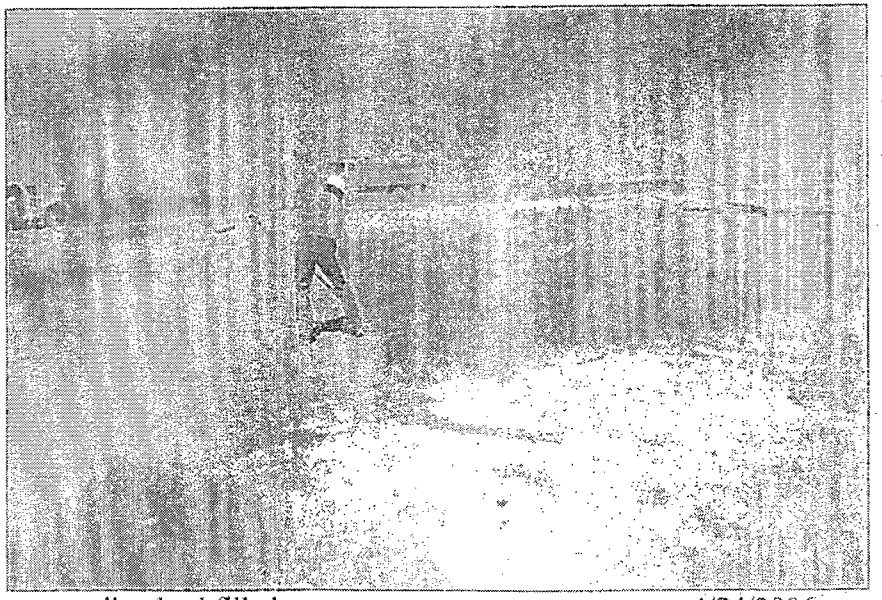
final 40 x 30 x 12-ft excavation 3/31/2006

40 x 30 x 12-ft excavation



compacting clay barrier at 6-5 ft BGS 4/13/2006

close-up of surface marker at former junction site 4/20/2006

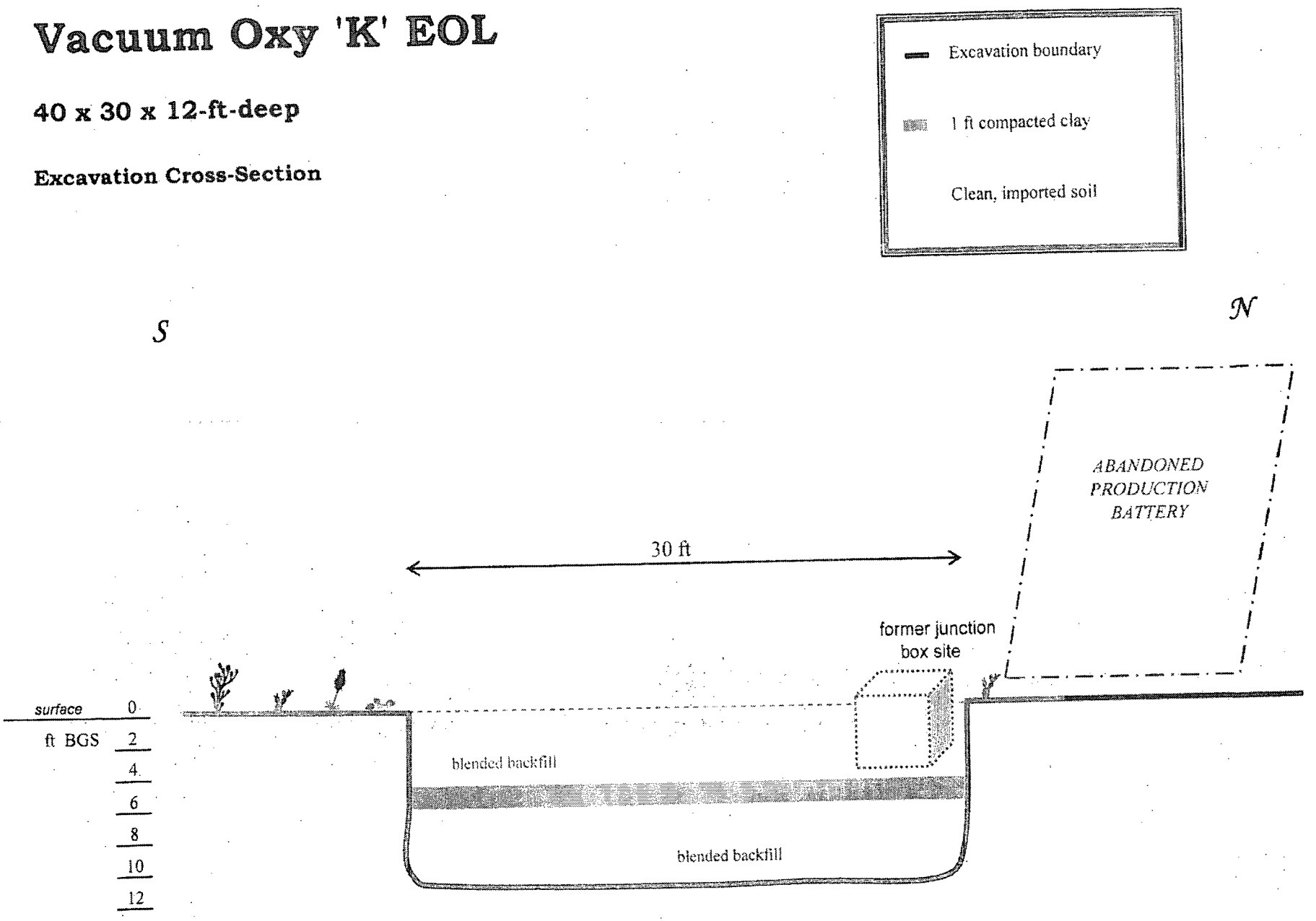


seeding backfilled area 4/24/2006

Vacuum Oxy 'K' EOL

40 x 30 x 12-ft-deep

Excavation Cross-Section



ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: Vacuum Oxy Phillips K-EOL
Project Number: None Given
Location: None Given

Lab Order Number: 5122002

Report Date: 09/26/05

Rice Operating Co.	Project: Vacuum Oxy Phillips K-EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/26/05 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Blended Backfill	5122002-01	Soil	09/20/05 12:15	09/22/05 08:00
5 PT Bottom@ 12'	5122002-02	Soil	09/20/05 11:33	09/22/05 08:00
10'X10' 4 Wall Comp.	5122002-03	Soil	09/20/05 12:00	09/22/05 08:00

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

Rice Operating Co.	Project: Vacuum Oxy Phillips K-EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/26/05 16:58

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Blended Backfill (5122002-01) 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		*73.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*92.6 %*	*70-130*		"	"	"	"	
5 PT Bottom@ 12' (5122002-02) 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		*88.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.4 %*	*70-130*		"	"	"	"	
10'X10' 4 Wall Comp. (5122002-03) 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		*90.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.0 %*	*70-130*		"	"	"	"	

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

Rice Operating Co.	Project: Vacuum Oxy Phillips K-EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/26/05 16:58

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Blended Backfill (5I22002-01) Soil									
Chloride	1060	20.0	mg/kg	40	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	7.7	0.1	%	1	EI52301	09/22/05	09/23/05	% calculation	
5 PT Bottom@ 12' (5I22002-02) Soil									
Chloride	1910	25.0	mg/kg	50	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	7.8	0.1	%	1	EI52301	09/22/05	09/23/05	% calculation	
10'X10' 4 Wall Comp. (5I22002-03) Soil									
Chloride	851	10.0	mg/kg	20	EI52305	09/22/05	09/23/05	EPA 300.0	
% Moisture	5.7	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*			

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

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	

Rice Operating Co.	Project: Vacuum Oxy Phillips K-EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Roy Rascon	09/26/05 16:58

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: 9-26-05

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

COPY

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy R. Rascon
Company Name: Rice Operating Co.
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, N.M. 88240
Telephone No: 505-393-9174 Fax No: 505-397-1471
Sampler Signature: Roy R. Rascon

Project Name: Vac. Oxy Phillips K-EOL
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: 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	TCLP	TOTAL	RUSH TAT (Pre-Schedule)
5L-12052																										
-01	Blended Back 4, 11	9-20-05	1215P	1	✓									✓		✓			✓							
-02	5PT. Btm @ 12'	9-20-05	1133A	1	✓									✓		✓			✓							
-03	10'X10' 4 Wall Comp.	9-20-05	1200	1	✓									✓		✓			✓							

Special Instructions:

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

Relinquished by:	Date	Time	Received by:	Date	Time
Roy R. Rascon	9-20-05	5:00P		9/21	1800
Relinquished by:	Date	Time	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 #: EI22002

Initials: CK

COR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-1.6 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:

_____

_____

_____

_____

_____

_____

_____

_____

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
SERIAL NO: 104412
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE 100 PPM
AIR BALANCE
LOT NO: 04-2747 FILL DATE: 2-1-06
EXP. DATE: 8-1-06 ACCURACY: +/- 2%
METER READING
ACCURACY: 100.7

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
VAC	Oxy Phillips K-EOL	H	21	17S	35E

	SAMPLE	PID RESULT	SAMPLE	PID RESULT
12'	5 PT BTTM Comp @12'	0.0		
10X10X12	4 WALL Comp	0.0		
Blended Soil →	Blend Soil Backfill	0.0		

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

Roy R. Rhodes — Signature

9-20-05 — Date

LABORATORY TEST REPORT

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

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: Oxy Phillips KEOL
Project No. 2006.1005

Date of Test: April 13, 2006

Depth: 5' Below Finished Subgrade

Depth of Probe: 10"

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Pit - 40 x 35 15' N. & 10' W. of the SE Corner	97.1	23.8	

Control Density: 98.7
ASTM: D 698

Optimum Moisture: 23.0

Required Compaction: 95%

Lab No.: 06 2580

PETTIGREW & ASSOCIATES

Copies To: Rice

BY: _____ P.E.

Vacuum Oxy Phillips 'K' EOL

unit 'H', Sec. 27, T17S, R35E

Backhoe samples at former junction

Depth bgs (ft)	Cl - ppm
3	233
4	422
5	430
6	469
7	448
8	479
9	664
10	559
11	872
12	1539

Groundwater = 75 ft