1R - 427 - 194

REPORTS

DATE:

4-13-05

EME Jct C-8-2

IR0427-194

FINAL

REPORT

RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	C-8-2	C	8	20S	37E	Lea	no box--junction eliminated		

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

Depth to Groundwater 36 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 3/2/2005 Date Completed 3/15/2005 NMOCD Witness no

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

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

FINAL ANALYTICAL RESULTS: Sample Date 3/3/2005 Sample Depth 12 ft

Procure 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 lab 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	183
BOTTOM COMP.	0.0	<10.0	<10.0	115
REMED. BACKFILL	0.0	<10.0	<10.0	92.6

General Description of Remedial Action: This junction was eliminated and the pipeline was re-plumbed straight through. The box lumber was removed and the site was delineated using a backhoe while PID screenings and chloride field tests were conducted at regular intervals. All PID screenings were 0.0 ppm throughout the 10 x 10 x 12-ft-deep excavation. Lab results on final excavation samples confirmed TPH concentrations were non-detect (<10.0 ppm), meeting NMOCD guidelines. All chloride field concentrations were very low and reflective of background concentrations. There were no physical indications of hydrocarbon or chloride impact. The excavated soil was blended on site and then backfilled into the excavation. The disturbed surface was seeded on 3/18/2005 with a blend of native vegetation and is expected to return to productive capacity at a normal rate. This junction has been eliminated and the box will not be replaced.

enclosures: chloride graph, photos, lab results, PID field screenings-

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
background	1	89
vertical trench at junction	4	75
	5	89
	6	104
	7	76
	8	89
	9	157
	10	103
	11	369
	12	214
	13	157
5 ft *EAST* of junction	4	362
	5	185
	6	345
	7	89
	8	71
	9	96
	10	176
	11	87
	12	80
4-wall comp.	n/a	99
bottom comp.	12	196
remed. comp.	n/a	84

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

SITE SUPERVISOR Israel Juarez SIGNATURE Israel Juarez COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 4/13/2005 TITLE Project Scientist

EME jct. C-8-2

unit 'C', sec. 8, T20S, R37E

undisturbed junction box 9/2/2004

old pipeline; junction box removed 10/4/2004

box site with new pipeline; before excavation 11/2/2005

delineation north of junction site 3/2/2005

backfilling excavation 3/15/2005

seeding disturbed surface at backfilled site 3/18/2005

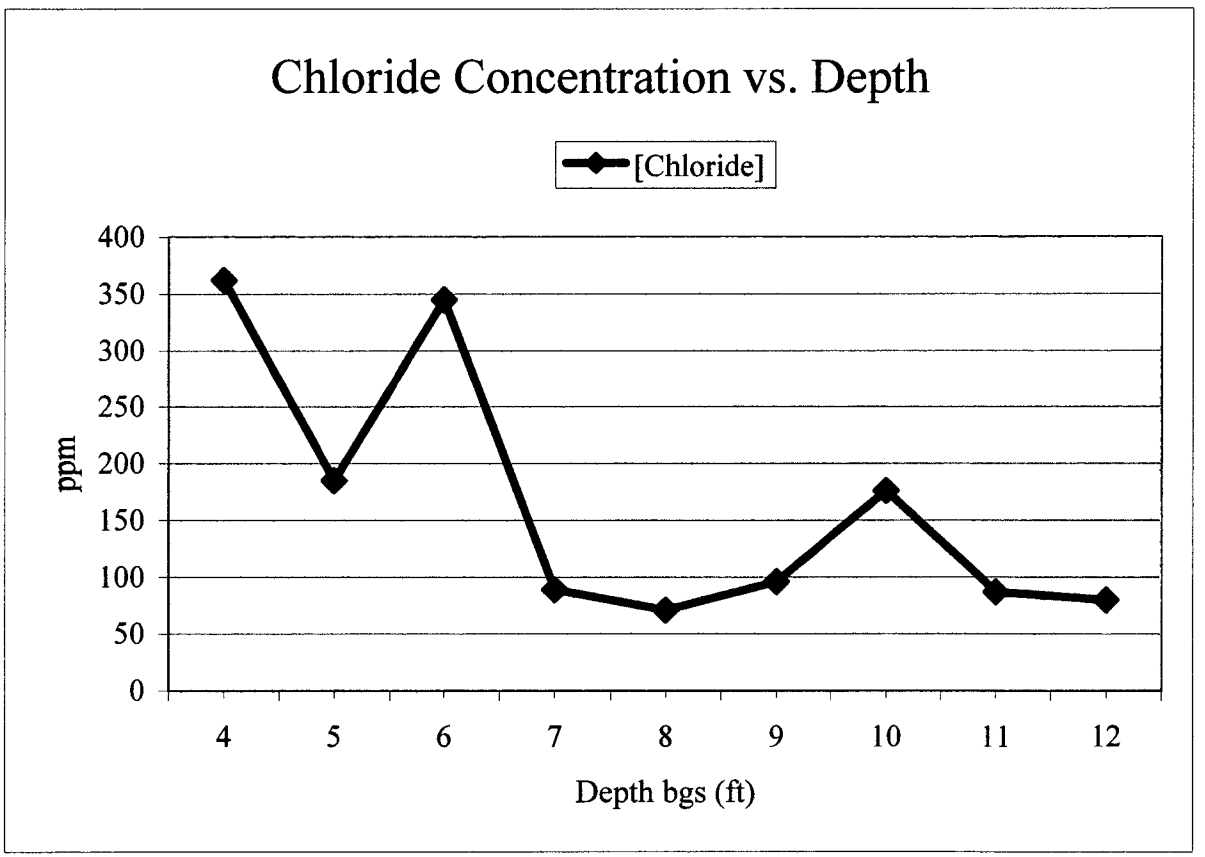
EME jct. C-8-2

unit 'C', sec. 8, T19S, R36E

5 ft EAST of junction

Depth bgs (ft)	[Cl⁻] ppm
4	362
5	185
6	345
7	89
8	71
9	96
10	176
11	87
12	80

Groundwater = 36 ft



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: EME Jct. C-8-2
Project Number: None Given
Location: None Given

Lab Order Number: 5C04007

Report Date: 03/09/05

Rice Operating Co.	Project: EME Jct. C-8-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4 Wall Comp.	5C04007-01	Soil	03/03/05 10:05	03/04/05 08:00
Bottom Comp.	5C04007-02	Soil	03/03/05 09:15	03/04/05 08:00
Remediated Backfill	5C04007-03	Soil	03/03/05 09:51	03/04/05 08:00

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

Rice Operating Co.	Project: EME Jct. C-8-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:28

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4 Wall Comp. (5C04007-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC50406	03/04/05	03/05/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.8 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*107 %*	*70-130*		"	"	"	"	
Bottom Comp. (5C04007-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC50406	03/04/05	03/05/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.6 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	
Remediated Backfill (5C04007-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC50406	03/04/05	03/05/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.4 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*100 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: EME Jct. C-8-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:28

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4 Wall Comp. (5C04007-01) Soil									
Chloride	**183**	5.00	mg/kg	10	EC50905	03/07/05	03/07/05	EPA 300.0	
% Moisture	**5.5**	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
Bottom Comp. (5C04007-02) Soil									
Chloride	**115**	20.0	mg/kg	40	EC50905	03/07/05	03/07/05	EPA 300.0	
% Moisture	**10.5**	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
Remediated Backfill (5C04007-03) Soil									
Chloride	**92.6**	10.0	mg/kg	20	EC50905	03/07/05	03/07/05	EPA 300.0	
% Moisture	**4.9**	0.1	%	1	EC50704	03/04/05	03/07/05	% 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 EC50406 - Solvent Extraction (GC)										
Blank (EC50406-BLK1)				Prepared: 03/04/05 Analyzed: 03/05/05						
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	*37.8*		*mg/kg*	*50.0*		*75.6*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*37.3*		*"*	*50.0*		*74.6*	*70-130*			
LCS (EC50406-BS1)				Prepared: 03/04/05 Analyzed: 03/05/05						
Gasoline Range Organics C6-C12	422	10.0	mg/kg wet	500		84.4	76.3-104			
Diesel Range Organics >C12-C35	435	10.0	"	500		87.0	76.1-118			
Total Hydrocarbon C6-C35	857	10.0	"	1000		85.7	81.8-105			
Surrogate: 1-Chlorooctane	*36.5*		*mg/kg*	*50.0*		*73.0*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*35.6*		*"*	*50.0*		*71.2*	*70-130*			
Calibration Check (EC50406-CCV1)				Prepared: 03/04/05 Analyzed: 03/05/05						
Gasoline Range Organics C6-C12	455		mg/kg	500		91.0	80-120			
Diesel Range Organics >C12-C35	527		"	500		105	80-120			
Total Hydrocarbon C6-C35	982		"	1000		98.2	80-120			
Surrogate: 1-Chlorooctane	*51.8*		*"*	*50.0*		*104*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*57.4*		*"*	*50.0*		*115*	*70-130*			
Matrix Spike (EC50406-MS1)		**Source: 5B24004-01**		Prepared: 03/04/05 Analyzed: 03/05/05						
Gasoline Range Organics C6-C12	497	10.0	mg/kg dry	545	ND	91.2	75.9-114			
Diesel Range Organics >C12-C35	586	10.0	"	545	ND	108	85.3-122			
Total Hydrocarbon C6-C35	1080	10.0	"	1090	ND	99.1	84.4-115			
Surrogate: 1-Chlorooctane	*49.3*		*mg/kg*	*50.0*		*98.6*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*51.7*		*"*	*50.0*		*103*	*70-130*			
Matrix Spike Dup (EC50406-MSD1)		**Source: 5B24004-01**		Prepared: 03/04/05 Analyzed: 03/05/05						
Gasoline Range Organics C6-C12	543	10.0	mg/kg dry	545	ND	99.6	75.9-114	8.85	10.4	
Diesel Range Organics >C12-C35	576	10.0	"	545	ND	106	85.3-122	1.72	10.4	
Total Hydrocarbon C6-C35	1120	10.0	"	1090	ND	103	84.4-115	3.64	7.6	
Surrogate: 1-Chlorooctane	*51.1*		*mg/kg*	*50.0*		*102*	*67.6-140*			
Surrogate: 1-Chlorooctadecane	*51.1*		*"*	*50.0*		*102*	*70-130*			

Rice Operating Co.	Project: EME Jct. C-8-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:28

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 EC50704 - General Preparation (Prep)										
Blank (EC50704-BLK1)				Prepared: 03/04/05 Analyzed: 03/07/05						
% Moisture	ND	0.1	%							
Duplicate (EC50704-DUP1)	**Source: 5C04001-01**			Prepared: 03/04/05 Analyzed: 03/07/05						
% Moisture	0.9	0.1	%		1.3			36.4	20	
Batch EC50905 - Water Extraction										
Blank (EC50905-BLK1)				Prepared & Analyzed: 03/07/05						
Chloride	ND	0.500	mg/kg							
Blank (EC50905-BLK2)				Prepared & Analyzed: 03/07/05						
Chloride	ND	0.500	mg/kg							
LCS (EC50905-BS1)				Prepared & Analyzed: 03/07/05						
Chloride	9.87		mg/L	10.0		98.7	80-120			
LCS (EC50905-BS2)				Prepared & Analyzed: 03/07/05						
Chloride	9.76		mg/L	10.0		97.6	80-120			
Calibration Check (EC50905-CCV1)				Prepared & Analyzed: 03/07/05						
Chloride	9.45		mg/L	10.0		94.5	80-120			
Calibration Check (EC50905-CCV2)				Prepared & Analyzed: 03/07/05						
Chloride	9.38		mg/L	10.0		93.8	80-120			
Duplicate (EC50905-DUP1)	**Source: 5C03002-01**			Prepared & Analyzed: 03/07/05						
Chloride	284	10.0	mg/kg		282			0.707	20	

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Rice Operating Co.	Project: EME Jct. C-8-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:28

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 EC50905 - Water Extraction										
Duplicate (EC50905-DUP2)	**Source: 5C04012-02**		Prepared & Analyzed: 03/07/05							
Chloride	986	50.0	mg/kg		1040			5.33	20	

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Rice Operating Co.	Project: EME Jct. C-8-2	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:28

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: 3-10-05

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: Israel Juarez

Project Name: ENE Jct C-8-2
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 / CEC SAR / EC	TPH 418.1	TPH TX 1005/1006	TOTAL: TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)
500407-01	4 wall Comp.	3-3-05	10:05 AM	1	X									X		X			X					
-02	Bottom Comp.	3-3-05	9:15 AM	1	X									X		X			X					
-03	Remediated backfill	3-3-05	9:51 AM	1	X									X		X			X					

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt:
Laboratory Comments:
-0.5°C
Air w/ Ice

Relinquished by:	Date	Time	Received by:	Date	Time
Israel Juarez	3-3-05	1:55	Roy K. Rascon	3-3-05	
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
C Haynes	3-4-05	8:00	Sandra Jarvis	3/4/05	8:00

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

Client: Rice Operating

Date/Time: 3/4/05 8:00

Order #: 5040077

Initials: CK

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:

_____

_____

_____

_____

_____

_____

_____

_____

10 x 10 x 12 ft deep excavation

Rice Operating Company

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

VOC FIELD TEST REPORT FORM

MODEL NO: PGM 76IS
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE AIR

LOT NO: 04-2747
EXP. DATE: 5-19-06
METER READING
ACCURACY: 98.2

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 11-19-04
ACCURACY: ± 2%

SYSTEM	JUNCION	UNIT	SECTION	TOWNSHIP	RANGE
EME	C-8-2	C	8	20	37

All composite samples.

SAMPLE	PID RESULT	SAMPLE	PID RESULT
N. wall Comp.	0		
S. wall Comp.	0		
E. Wall Comp.	0		
W. Wall Comp.	0		
BTM. Comp → bottom comp. @ 12'	0		
Rem. BF → Remediated backfill	0		
4wall Comp → 4-wall composite	0		

KP

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

Signature [signature] Date 2-8-05