1R – 427 - 161

REPORTS

DATE:

3-18-05

EMT JH B-26

IRO 427-161

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	B-26	B	26	19S	36E	Lea	eliminated--no box		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Jimmie T. Cooper OTHER _____

Depth to Groundwater 59 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 9/7/2004 Date Completed 3/1/2005 NMOCD Witness no

Soil Excavated 93 cubic yards Excavation Length 21 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 2/15/2005 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.	0.1	<10.0	<10.0	85.8
BOTTOM COMP.	0.1	<10.0	<10.0	15.1
REMED. BACKFILL	0.1	<10.0	<10.0	113

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
vertical below junction box	4	930
	5	689
	6	589
	7	540
	8	210
16 ft WEST of junction box	1	119
	2	117
	3	262
	4	463
	5	339
	6	398
	7	326
	8	257
	9	336
	10	323
	11	262
	12	113
4-wall comp.	n/a	135
bottom comp.	12	102
remed. backfill	n/a	114

General Description of Remedial Action: This junction box was located about 10 ft east of a caliche lease road. The junction was eliminated and the box lumber was removed. The location was delineated using a backhoe while PID field screenings and chloride field tests were conducted at regular intervals. Chloride field tests yielded concentrations that significantly declined with depth and breadth throughout the 21 x 10 x 12-ft-deep excavation, indicative of historically non-saturated vadose conditions. All PID readings were 0.0 or 0.1 ppm and lab results confirmed non-detect (<10.0) TPH concentrations that met NMOCD guidelines. The excavated soil was blended on site and then backfilled into the hole. 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.

enclosures: chloride graphs, photos, lab results, PID field screenings, diagram

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

SITE SUPERVISOR Rob Elam SIGNATURE not available COMPANY Curt's Environmental--Odessa, TX

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 3/18/2005 TITLE Project Scientist

EME jct. B-26

unit 'B', sec. 26, T19S, R36E

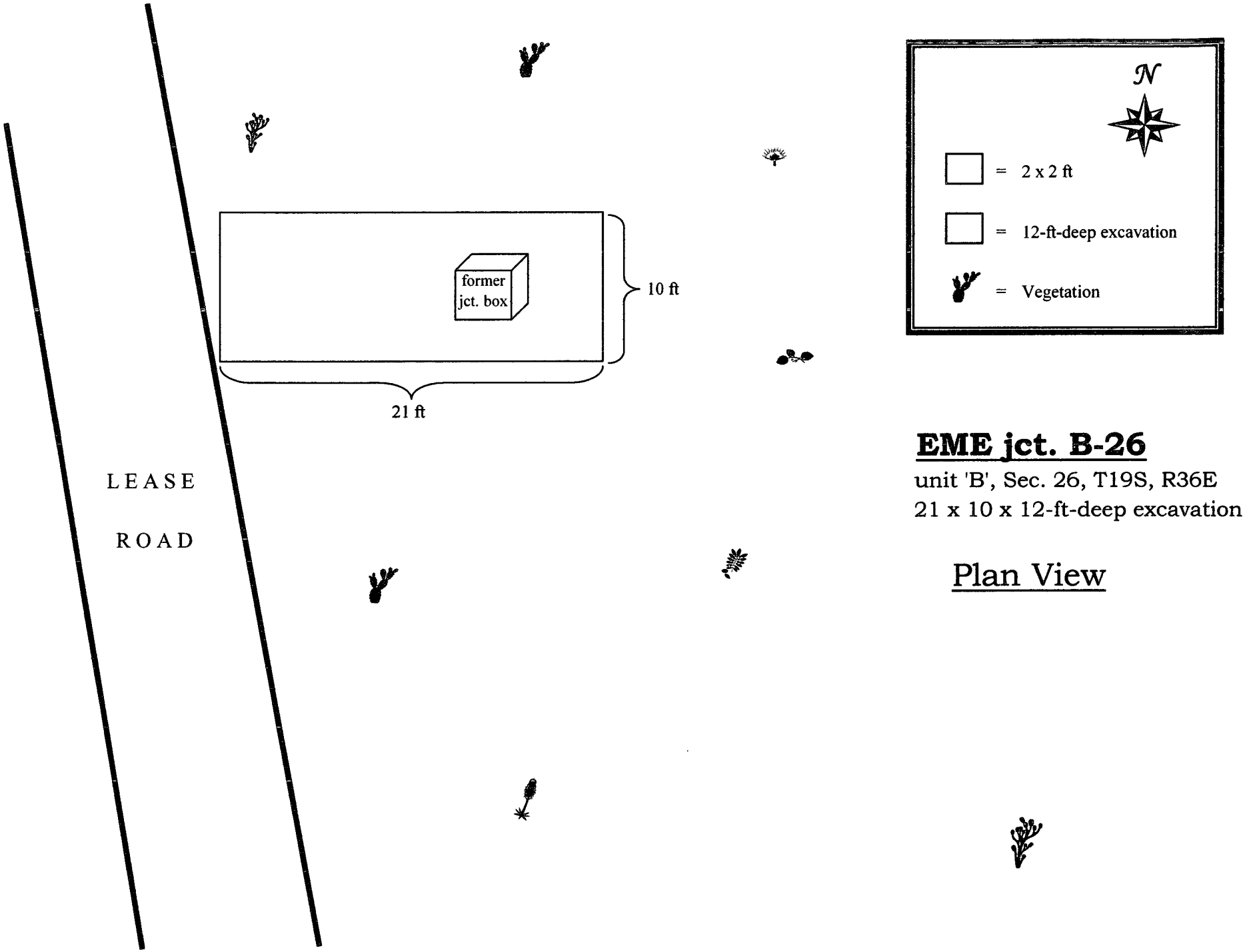
undisturbed junction box (looking south) 8/31/2004

15 x 10 x 12 ft deep excavation (looking south) 9/9/2004

further delineation 18 ft west of junction (looking west) 2/14/2005

backfilled excavation (looking north) 3/1/2005

seeding disturbed surface 3/18/2005



EME jct. B-26

unit 'B', Sec. 26, T19S, R36E

21 x 10 x 12-ft-deep excavation

Plan View

EME jct. B-26

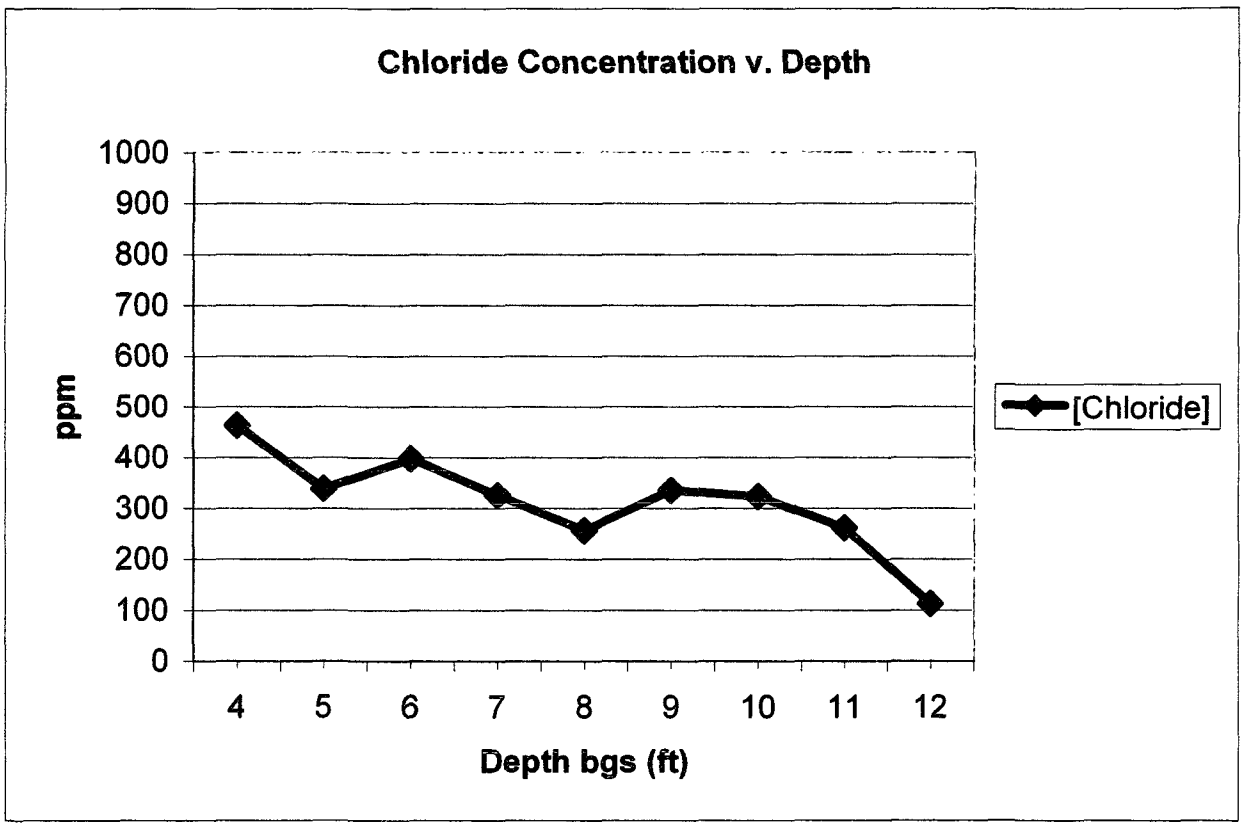
T19S, R36E

16 ft WEST of junction

Depth bgs (ft)	[Cl⁻] ppm
4	463
5	339
6	398
7	326
8	257
9	336
10	323
11	262
12	113

pipeline depth = 3 ft

Groundwater = 59 ft



EME jct. B-26

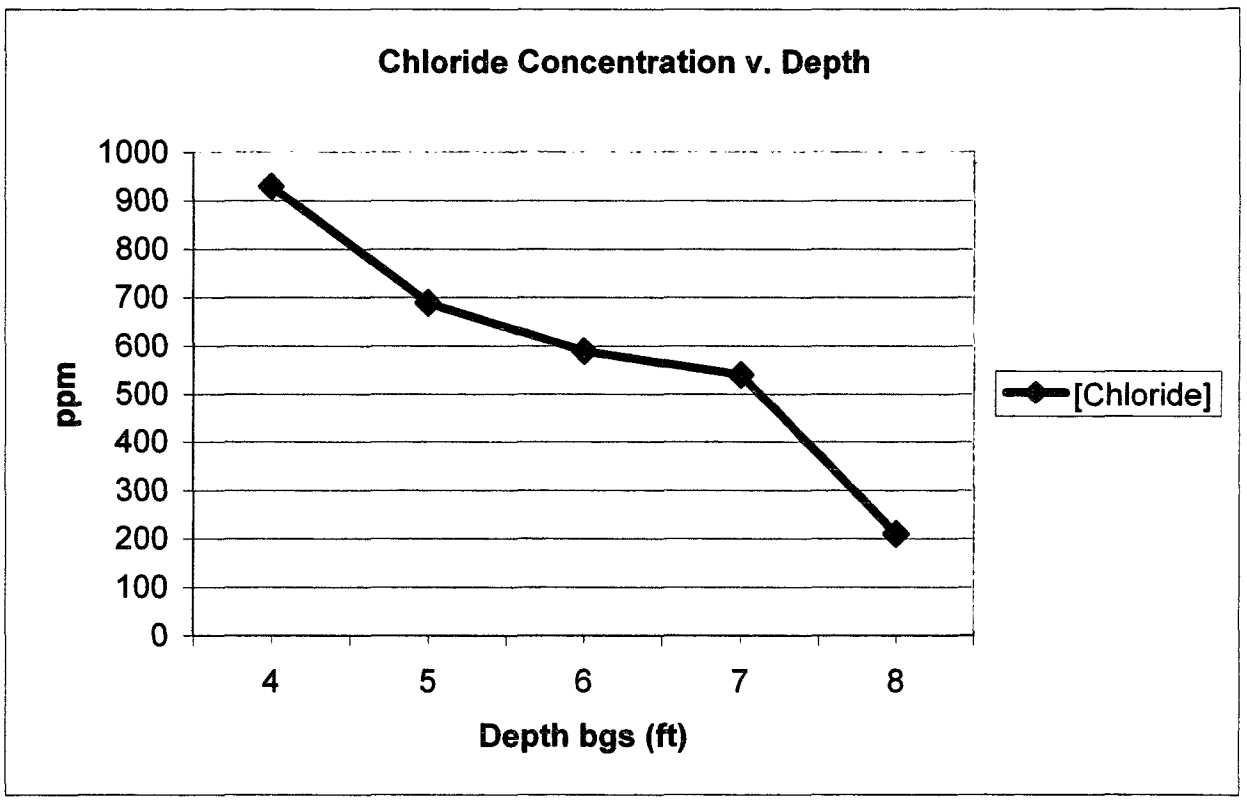
T19S, R36E

Vertical Delineation at Junction

Depth bgs (ft)	[Cl⁻] ppm
4	930
5	689
6	589
7	540
8	210

pipeline depth = 3 ft

Groundwater = 59 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 B-26

Project Number: None Given

Location: None Given

Lab Order Number: 5B16006

Report Date: 02/21/05

Rice Operating Co.	Project: EME B-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	02/21/05 16:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Comp. 12'	5B16006-01	Soil	02/15/05 09:00	02/16/05 07:45
4 Wall Comp.	5B16006-02	Soil	02/15/05 09:15	02/16/05 07:45
REMD Backfill	5B16006-03	Soil	02/15/05 09:30	02/16/05 07:45

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

Rice Operating Co.	Project: EME B-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	02/21/05 16:39

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom Comp. 12' (5B16006-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB51604	02/16/05	02/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*72.0 %*	*70-130*		"	"	"	"	
4 Wall Comp. (5B16006-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB51604	02/16/05	02/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*75.2 %*	*70-130*		"	"	"	"	
REMD Backfill (5B16006-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB51604	02/16/05	02/17/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*84.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.4 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: EME B-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	02/21/05 16:39

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom Comp. 12' (5B16006-01) Soil									
Chloride	**15.1**	5.00	mg/kg	10	EB52106	02/18/05	02/18/05	EPA 300.0	
% Moisture	**12.8**	0.1	%	1	EB51701	02/16/05	02/17/05	% calculation	
4 Wall Comp. (5B16006-02) Soil									
Chloride	**85.8**	20.0	mg/kg	40	EB52107	02/19/05	02/19/05	EPA 300.0	
% Moisture	**10.5**	0.1	%	1	EB51701	02/16/05	02/17/05	% calculation	
REMD Backfill (5B16006-03) Soil									
Chloride	**113**	25.0	mg/kg	50	EB52107	02/19/05	02/19/05	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	EB51701	02/16/05	02/17/05	% 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 EB51604 - Solvent Extraction (GC)										
Blank (EB51604-BLK1)				Prepared & Analyzed: 02/16/05						
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	*36.7*		*mg/kg*	*50.0*		*73.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.3*		*"*	*50.0*		*74.6*	*70-130*			
Blank (EB51604-BLK2)				Prepared: 02/16/05 Analyzed: 02/17/05						
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	*35.7*		*mg/kg*	*50.0*		*71.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.7*		*"*	*50.0*		*71.4*	*70-130*			
LCS (EB51604-BS1)				Prepared & Analyzed: 02/16/05						
Gasoline Range Organics C6-C12	429	10.0	mg/kg wet	500		85.8	75-125			
Diesel Range Organics >C12-C35	480	10.0	"	500		96.0	75-125			
Total Hydrocarbon C6-C35	909	10.0	"	1000		90.9	75-125			
Surrogate: 1-Chlorooctane	*38.4*		*mg/kg*	*50.0*		*76.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.3*		*"*	*50.0*		*72.6*	*70-130*			
LCS (EB51604-BS2)				Prepared: 02/16/05 Analyzed: 02/17/05						
Gasoline Range Organics C6-C12	474	10.0	mg/kg wet	500		94.8	75-125			
Diesel Range Organics >C12-C35	461	10.0	"	500		92.2	75-125			
Total Hydrocarbon C6-C35	935	10.0	"	1000		93.5	75-125			
Surrogate: 1-Chlorooctane	*36.9*		*mg/kg*	*50.0*		*73.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.8*		*"*	*50.0*		*77.6*	*70-130*			
Calibration Check (EB51604-CCV1)				Prepared & Analyzed: 02/16/05						
Gasoline Range Organics C6-C12	485		mg/kg	500		97.0	80-120			
Diesel Range Organics >C12-C35	537		"	500		107	80-120			
Total Hydrocarbon C6-C35	1020		"	1000		102	80-120			
Surrogate: 1-Chlorooctane	*44.5*		*"*	*50.0*		*89.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.2*		*"*	*50.0*		*82.4*	*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 EB51604 - Solvent Extraction (GC)										
Calibration Check (EB51604-CCV2)				Prepared: 02/16/05 Analyzed: 02/17/05						
Gasoline Range Organics C6-C12	463		mg/kg	500		92.6	80-120			
Diesel Range Organics >C12-C35	536		"	500		107	80-120			
Total Hydrocarbon C6-C35	1000		"	1000		100	80-120			
Surrogate: 1-Chlorooctane	*46.3*		"	*50.0*		*92.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.5*		"	*50.0*		*85.0*	*70-130*			
Matrix Spike (EB51604-MS1)		**Source: 5B15007-03**		Prepared: 02/15/05 Analyzed: 02/17/05						
Gasoline Range Organics C6-C12	519	10.0	mg/kg dry	548	ND	94.7	75-125			
Diesel Range Organics >C12-C35	661	10.0	"	548	116	99.5	75-125			
Total Hydrocarbon C6-C35	1180	10.0	"	1100	116	96.7	75-125			
Surrogate: 1-Chlorooctane	*40.5*		*mg/kg*	*50.0*		*81.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.4*		"	*50.0*		*76.8*	*70-130*			
Matrix Spike (EB51604-MS2)		**Source: 5B16012-03**		Prepared: 02/16/05 Analyzed: 02/18/05						
Gasoline Range Organics C6-C12	565	10.0	mg/kg dry	564	ND	100	75-125			
Diesel Range Organics >C12-C35	609	10.0	"	564	ND	108	75-125			
Total Hydrocarbon C6-C35	1170	10.0	"	1130	ND	104	75-125			
Surrogate: 1-Chlorooctane	*43.3*		*mg/kg*	*50.0*		*86.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.7*		"	*50.0*		*71.4*	*70-130*			
Matrix Spike Dup (EB51604-MSD1)		**Source: 5B15007-03**		Prepared: 02/15/05 Analyzed: 02/17/05						
Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	548	ND	98.7	75-125	4.15	20	
Diesel Range Organics >C12-C35	677	10.0	"	548	116	102	75-125	2.39	20	
Total Hydrocarbon C6-C35	1220	10.0	"	1100	116	100	75-125	3.33	20	
Surrogate: 1-Chlorooctane	*38.0*		*mg/kg*	*50.0*		*76.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.7*		"	*50.0*		*75.4*	*70-130*			
Matrix Spike Dup (EB51604-MSD2)		**Source: 5B16012-03**		Prepared: 02/16/05 Analyzed: 02/18/05						
Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	564	ND	95.9	75-125	4.34	20	
Diesel Range Organics >C12-C35	605	10.0	"	564	ND	107	75-125	0.659	20	
Total Hydrocarbon C6-C35	1150	10.0	"	1130	ND	102	75-125	1.72	20	
Surrogate: 1-Chlorooctane	*41.0*		*mg/kg*	*50.0*		*82.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.0*		"	*50.0*		*74.0*	*70-130*			

Rice Operating Co.	Project: EME B-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	02/21/05 16:39

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 EB51701 - General Preparation (Prep)										
Blank (EB51701-BLK1)				Prepared: 02/16/05 Analyzed: 02/17/05						
% Moisture	ND	0.1	%							
Duplicate (EB51701-DUP1)	**Source: 5B16002-01**			Prepared: 02/16/05 Analyzed: 02/17/05						
% Moisture	6.2	0.1	%		6.0			3.28	20	
Batch EB52106 - Water Extraction										
Blank (EB52106-BLK1)				Prepared & Analyzed: 02/18/05						
Chloride	ND	0.500	mg/kg							
LCS (EB52106-BS1)				Prepared & Analyzed: 02/18/05						
Chloride	8.81		mg/L	10.0		88.1	80-120			
LCS Dup (EB52106-BSD1)				Prepared & Analyzed: 02/18/05						
Chloride	8.80		mg/L	10.0		88.0	80-120	0.114	20	
Calibration Check (EB52106-CCV1)				Prepared & Analyzed: 02/18/05						
Chloride	9.00		mg/L	10.0		90.0	80-120			
Duplicate (EB52106-DUP1)	**Source: 5B11018-01**			Prepared & Analyzed: 02/18/05						
Chloride	22.2	5.00	mg/kg		22.2			0.00	20	
Batch EB52107 - Water Extraction										
Blank (EB52107-BLK1)				Prepared & Analyzed: 02/19/05						
Chloride	ND	0.500	mg/kg							

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Rice Operating Co.	Project: EME B-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	02/21/05 16:39

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 EB52107 - Water Extraction										
LCS (EB52107-BS1)				Prepared & Analyzed: 02/19/05						
Chloride	9.49		mg/L	10.0		94.9	80-120			
LCS Dup (EB52107-BSD1)				Prepared & Analyzed: 02/19/05						
Chloride	9.17		mg/L	10.0		91.7	80-120	3.43	20	
Calibration Check (EB52107-CCV1)				Prepared & Analyzed: 02/19/05						
Chloride	9.40		mg/L	10.0		94.0	80-120			
Duplicate (EB52107-DUP1)		**Source: 5B16006-02**		Prepared & Analyzed: 02/19/05						
Chloride	88.4	20.0	mg/kg		85.8			2.99	20	

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Rice Operating Co.	Project: EME B-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	02/21/05 16:39

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: 2-21-05

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 Gratt

Project Name: EME B-26
Project #:
Project Loc:
PO #:

5B16006

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									IRUSH TAT (Pre-Schedule)	Standard TAT
-01	Bott. Comp 12'	2/15/05	900	1	X									X		X			X														
-02	4 WALL comp	2/15/05	915	1	X									X		X			X														
-03	REMD BACKFILL	2/15/05	930	1	X									X		X			X														

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: ~1.0 C
Laboratory Comments: 4oz glass on ice

Relinquished by:	Date	Time	Received by:	Date	Time
Joe Gratt	2/15/05	4:30			
Relinquished by:	Date	Time	Received by ELOT: From Drop Box	Date	Time
	2-15-05	8:40p	Jeanne McMurray	02-16-05	0745

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

Client: Pine Operating

Date/Time: 2/16/15 8:45

Order #: 5B16006

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:

_____

_____

_____

_____

_____

_____

_____

_____

10 x 21 x 12 ft

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: 100.1

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 11/19/04
ACCURACY: +02 - 2%

SYSTEM	JUNCION	UNIT	SECTION	TOWNSHIP	RANGE
EME	B-26	13	26	19	36

SAMPLE	PID RESULT	SAMPLE	PID RESULT
5' North	.1		
5' East	.1		
5' South	.1		
16' West	.1		
Bott. Comp 12'	.1		
4 WALL COMP	.1		
REMD. BACKFILL	.1		

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

Signature Jon Scott Date 2/15/05