1R - 427-166

REPORTS

DATE:

1-25-07

EME Conoco SEMU EOL

RECEIVED

APR - 4 2007

Environmental Bureau
Oil Conservation Division

CLOSURE

RICE OPERATING COMPANY
JUNCTION BOX CLOSURE REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	SEMU EOL	P	15	20S	37E	Lea	moved 25 ft south		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER S & W Cattle Co. OTHER _____

Depth to Groundwater 78 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 8/2/2004 Date Completed 3/2/2005 OCD Witness No

Soil Excavated 360 cubic yards Excavation Length 27 Width 30 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: **Sample Date** 8/6/2004, 3/2/2005 **Sample Depth** 12, 30 ft

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

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chloride mg/kg
BOTTOM @ 12 ft	0.0391	0.531	1.57	6.09	394.0	1610	1150
REMED. BACKFILL	PID = 48.9				35.0	504	702
SOIL BORE @ 30 ft	<0.025	0.0232	0.0772	0.1631	8.45	18.7	97.6

General Description of Remedial Action: This end-of-line (EOL) box was located southwest of an active production facility. The junction was moved 25 ft south with the pipeline replacement and a new watertight box was built. The old box was delineated using a backhoe while PID screenings and chloride field tests were performed at regular intervals. Although chloride concentrations declined laterally from the junction, concentrations did not decline with depth. Remaining hydrocarbon outside the 27 x 30 x 12-ft-deep excavation is expected to naturally attenuate. The excavated soil was blended on site and then backfilled into the excavation. The disturbed surface was seeded with a blend of native vegetation. On 3/2/2005, a soil bore was initiated at the site to further investigate the depth of chloride impact. Analysis of the soil samples from the bore yielded chloride concentrations that consistently declined with depth and ceased well above the suspected depth to groundwater (97.6 ppm at 30 ft BGS). NMOCD TPH and BTEX guidelines were met. The bore hole plugged with bentonite. These activities do not pose any threat to groundwater, the environment, or human health.

enclosures: bore log, chloride graph, photos, lab results, PID field screenings

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
vertical at junction box	6	1574
	7	1874
	8	2150
	9	2115
	10	1982
	11	2147
	12	2301
SOIL BORE	15	1101
	20	1727
	25	572
	30	179
	35	48
4-wall comp.	n/a	1385
bottom comp.	12	887
remed. backfill	n/a	633

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 Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 1/25/2007 TITLE Project Scientist

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

SEMU

Project: EME RRR Conoco Phillips
Project Number: SEMLL EOL
Location: None Given

Lab Order Number: 5C04006

Report Date: 03/09/05

Rice Operating Co.	Project: EME RRR Conoco Phillips	Fax: (505) 397-1471
122 W. Taylor	Project Number: SEMLL EOL	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
15' (Soil Bore)	5C04006-01	Soil	03/02/05 14:50	03/04/05 08:00
20' (Soil Bore)	5C04006-02	Soil	03/02/05 15:15	03/04/05 08:00
30' (Soil Bore)	5C04006-03	Soil	03/02/05 16:00	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 RRR Conoco Phillips	Fax: (505) 397-1471
122 W. Taylor	Project Number: SEMLL EOL	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:27

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
15' (Soil Bore) (5C04006-01) Soil									
Benzene	**0.389**	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	**6.07**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**10.6**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**14.6**	0.0250	"	"	"	"	"	"	
Xylene (o)	**6.07**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*270 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*105 %*	*80-120*		"	"	"	"	
20' (Soil Bore) (5C04006-02) Soil									
Benzene	**0.176**	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	**2.04**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**4.24**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**7.91**	0.0250	"	"	"	"	"	"	
Xylene (o)	**3.38**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*223 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*98.9 %*	*80-120*		"	"	"	"	
30' (Soil Bore) (5C04006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EC50408	03/04/05	03/04/05	EPA 8021B	
Toluene	**J [0.0232]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.0772**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.114**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0491**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [8.45]**	25.0	mg/kg dry	1	EC50406	03/04/05	03/05/05	TX 1005	J
Diesel Range Organics >C12-C35	**J [18.7]**	25.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.6 %*	*67.6-140*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*104 %*	*70-130*		"	"	"	"	

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Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:27

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
15' (Soil Bore) (5C04006-01) Soil									
Chloride	**1120**	40.0	mg/kg	80	EC50905	03/07/05	03/07/05	EPA 300.0	
% Moisture	**12.5**	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
20' (Soil Bore) (5C04006-02) Soil									
Chloride	**1560**	50.0	mg/kg	100	EC50905	03/07/05	03/07/05	EPA 300.0	
% Moisture	**12.1**	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	
30' (Soil Bore) (5C04006-03) Soil									
Chloride	**97.6**	5.00	mg/kg	10	EC50905	03/07/05	03/07/05	EPA 300.0	
% Moisture	**10.8**	0.1	%	1	EC50704	03/04/05	03/07/05	% calculation	

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Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:27

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	25.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	25.0	"							
Total Hydrocarbon C6-C35	ND	25.0	"							
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	25.0	mg/kg wet	500		84.4	76.3-104			
Diesel Range Organics >C12-C35	435	25.0	"	500		87.0	76.1-118			
Total Hydrocarbon C6-C35	857	25.0	"	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	25.0	mg/kg dry	545	ND	91.2	75.9-114			
Diesel Range Organics >C12-C35	586	25.0	"	545	ND	108	85.3-122			
Total Hydrocarbon C6-C35	1080	25.0	"	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	25.0	mg/kg dry	545	ND	99.6	75.9-114	8.85	10.4	
Diesel Range Organics >C12-C35	576	25.0	"	545	ND	106	85.3-122	1.72	10.4	
Total Hydrocarbon C6-C35	1120	25.0	"	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*			

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Organics by GC - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC50408 - EPA 5030C (GC)										
Blank (EC50408-BLK1)				Prepared: 03/03/05 Analyzed: 03/04/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*91.9*		*ug/kg*	*100*		*91.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.1*		"	*100*		*98.1*	*80-120*			
LCS (EC50408-BS1)				Prepared & Analyzed: 03/03/05						
Benzene	111		ug/kg	100		111	80-120			
Toluene	115		"	100		115	80-120			
Ethylbenzene	113		"	100		113	80-120			
Xylene (p/m)	238		"	200		119	80-120			
Xylene (o)	118		"	100		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*111*		"	*100*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*112*		"	*100*		*112*	*80-120*			
Calibration Check (EC50408-CCV1)				Prepared: 03/03/05 Analyzed: 03/04/05						
Benzene	101		ug/kg	100		101	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	89.3		"	100		89.3	80-120			
Xylene (p/m)	199		"	200		99.5	80-120			
Xylene (o)	96.7		"	100		96.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	*99.0*		"	*100*		*99.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*85.2*		"	*100*		*85.2*	*80-120*			
Matrix Spike (EC50408-MS1)	**Source: 5C03004-02**			Prepared & Analyzed: 03/03/05						
Benzene	114		ug/kg	100	ND	114	80-120			
Toluene	120		"	100	ND	120	80-120			
Ethylbenzene	110		"	100	ND	110	80-120			
Xylene (p/m)	237		"	200	ND	118	80-120			
Xylene (o)	117		"	100	ND	117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*117*		"	*100*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*112*		"	*100*		*112*	*80-120*			

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 EC50408 - EPA 5030C (GC)										
Matrix Spike Dup (EC50408-MSD1)	**Source: 5C03004-02**		Prepared & Analyzed: 03/03/05							
Benzene	99.8		ug/kg	100	ND	99.8	80-120	13.3	20	
Toluene	100		"	100	ND	100	80-120	18.2	20	
Ethylbenzene	92.6		"	100	ND	92.6	80-120	17.2	20	
Xylene (p/m)	208		"	200	ND	104	80-120	12.6	20	
Xylene (o)	101		"	100	ND	101	80-120	14.7	20	
Surrogate: a,a,a-Trifluorotoluene	*94.2*		"	*100*		*94.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*91.7*		"	*100*		*91.7*	*80-120*			

Rice Operating Co.	Project: EME RRR Conoco Phillips	Fax: (505) 397-1471
122 W. Taylor	Project Number: SEMLL EOL	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	03/09/05 12:27

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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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	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 3-09-05

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: 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: EME BRS ECT Conoco Phillips SEMU EOL
Project #:
Project Loc:
PO #:

LAB # (lab use only) 320400	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	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	15' (Soil Bore)	3-2-05	1450	1	✓									✓		✓							✓								
-02	20' (Soil Bore)	↓	1515	1	✓									✓		✓							✓								
-03	30' (Soil Bore)	↓	1600	1	✓									✓		✓			✓				✓								

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: -0.5°C
Laboratory Comments: 4oz w/seals

Relinquished by:	Date	Time	Received by:	Date	Time
Ray R. Rascon	3-1-05		Carolyn Dena Haynes	3-3-05	17:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
CR Haynes	3-4-05	8:00	Sandra Salinas	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 #: 5C04006

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:

_____

_____

_____

_____

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_____

_____

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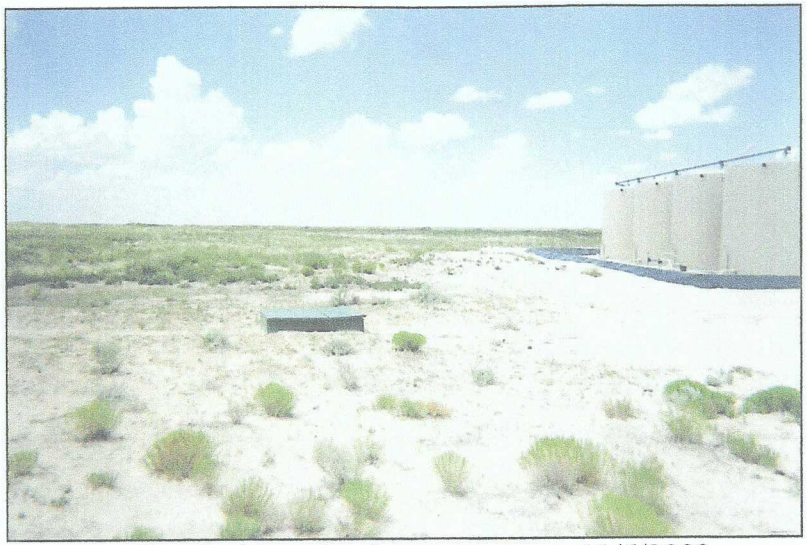
EME SEMU EOL

unit 'P', sec. 15, T20S, R37E



undisturbed junction box 11/6/2003

new junction and plumbing moved 25 ft south of former 6/11/2004

beginning excavation & delineation at old box site 8/2/2004

delineation 15 ft south of junction (looking west) 8/4/2004

final 27 x 30 x 12 ft excavation 8/6/2004

backfilling excavation (with new junction box) 8/13/2004

identification plate at former box site 1/4/2005

EME SEMU EOL soil boring photos 3/2/2005

Drilling

Pouring bentonite clay seal

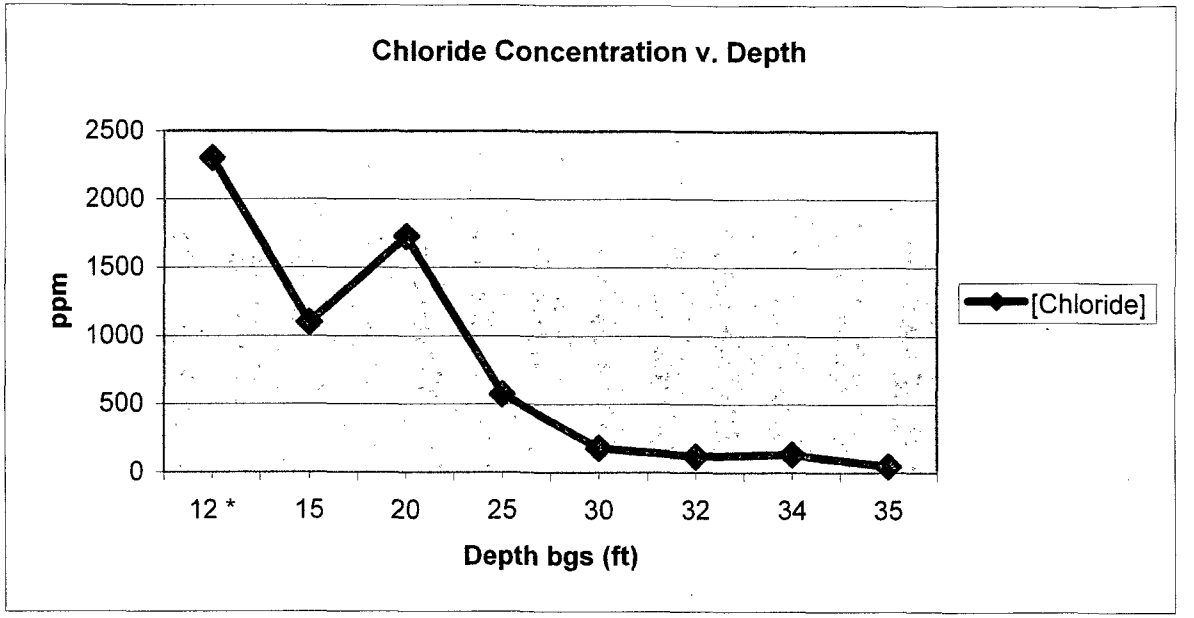
EME SEMU EOL

unit 'P', Sec. 15, T20S, R37E

SOIL BORING

Depth bgs (ft)	[Cl^-] mg/kg
12 *	2301
15	1101
20	1727
25	572
30	179
32	117
34	135
35	48

Groundwater = 78 ft



* backhoe sample

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 Conoco SEMU EOL

Project Number: None Given

Location: EME

Lab Order Number: 4H12002

Report Date: 08/18/04

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lab Comp. West Wall 2,3	4H12002-01	Soil	08/06/04 09:17	08/12/04 07:45
West Wall Comp.	4H12002-02	Soil	08/06/04 10:40	08/12/04 07:45
North Wall #3	4H12002-03	Soil	08/06/04 08:30	08/12/04 07:45
North Wall Comp.	4H12002-04	Soil	08/06/04 10:35	08/12/04 07:45
Lab Comp. East Wall 3,4	4H12002-05	Soil	08/06/04 09:18	08/12/04 07:45
East Wall Comp.	4H12002-06	Soil	08/06/04 10:25	08/12/04 07:45
Remd. Backfill	4H12002-07	Soil	08/06/04 11:00	08/12/04 07:45

The remediated backfill composite sample ("Remd. Backfill") was field-collected; results are valid. The other samples were collected incorrectly and results are considered invalid.

KP 12-29-04

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

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lab Comp. West Wall 2,3 (4H12002-01) Soil									
Benzene	**0.227**	0.0500	mg/kg dry	50	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**1.77**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**1.97**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**12.0**	0.0500	"	"	"	"	"	"	
Xylene (o)	**2.50**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*142 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*139 %*	*80-120*		"	"	"	"	*S-04*
West Wall Comp. (4H12002-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**0.0419**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0506**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.247**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0383**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**99.5**	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	**515**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**614**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*117 %*	*70-130*		"	"	"	"	
North Wall #3 (4H12002-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.9 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North Wall Comp. (4H12002-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	**65.9**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**65.9**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*86.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*89.6 %*	*70-130*		"	"	"	"	
Lab Comp. East Wall 3,4 (4H12002-05) Soil									
Benzene	**0.453**	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**3.89**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**6.69**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**14.4**	0.0250	"	"	"	"	"	"	
Xylene (o)	**5.15**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*664 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*142 %*	*80-120*		"	"	"	"	*S-04*
East Wall Comp. (4H12002-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**0.0721**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.108**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.422**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.118**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**171**	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	**704**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**875**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*126 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Remd. Backfill (4H12002-07) Soil									
Gasoline Range Organics C6-C12	**35.0**	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	**504**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**539**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*127 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lab Comp. West Wall 2,3 (4H12002-01) Soil									
% Solids	**82.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
West Wall Comp. (4H12002-02) Soil									
Chloride	**510**	20.0	mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	**95.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
North Wall #3 (4H12002-03) Soil									
% Solids	**86.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
North Wall Comp. (4H12002-04) Soil									
Chloride	**2870**	20.0	mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	**95.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
Lab Comp. East Wall 3,4 (4H12002-05) Soil									
% Solids	**81.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
East Wall Comp. (4H12002-06) Soil									
Chloride	**617**	20.0	mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	**92.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
Remd. Backfill (4H12002-07) Soil									
Chloride	**702**	20.0	mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	**98.0**		%	1	EH41301	08/12/04	08/12/04	% 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 EH41207 - Solvent Extraction (GC)										
Blank (EH41207-BLK1)				Prepared & Analyzed: 08/12/04						
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	*43.9*		*mg/kg*	*50.0*		*87.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.5*		*"*	*50.0*		*89.0*	*70-130*			
Blank (EH41207-BLK2)				Prepared & Analyzed: 08/12/04						
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	*43.3*		*mg/kg*	*50.0*		*86.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
LCS (EH41207-BS1)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Diesel Range Organics >C12-C35	484	10.0	"	500		96.8	75-125			
Total Hydrocarbon C6-C35	924	10.0	"	1000		92.4	75-125			
Surrogate: 1-Chlorooctane	*50.4*		*mg/kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
LCS (EH41207-BS2)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125			
Diesel Range Organics >C12-C35	410	10.0	"	500		82.0	75-125			
Total Hydrocarbon C6-C35	824	10.0	"	1000		82.4	75-125			
Surrogate: 1-Chlorooctane	*36.3*		*mg/kg*	*50.0*		*72.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.4*		*"*	*50.0*		*78.8*	*70-130*			
Calibration Check (EH41207-CCV1)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	442		mg/kg	500		88.4	80-120			
Diesel Range Organics >C12-C35	496		"	500		99.2	80-120			
Total Hydrocarbon C6-C35	938		"	1000		93.8	80-120			
Surrogate: 1-Chlorooctane	*49.5*		*"*	*50.0*		*99.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.4*		*"*	*50.0*		*80.8*	*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 EH41207 - Solvent Extraction (GC)										
Calibration Check (EH41207-CCV2)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	465		mg/kg	500		93.0	80-120			
Diesel Range Organics >C12-C35	513		"	500		103	80-120			
Total Hydrocarbon C6-C35	978		"	1000		97.8	80-120			
Surrogate: 1-Chlorooctane	*51.9*		"	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.5*		"	*50.0*		*89.0*	*70-130*			
Matrix Spike (EH41207-MS1)		**Source: 4H12002-04**		Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	518	10.0	mg/kg dry	526	ND	98.5	75-125			
Diesel Range Organics >C12-C35	684	10.0	"	526	65.9	118	75-125			
Total Hydrocarbon C6-C35	1200	10.0	"	1050	65.9	108	75-125			
Surrogate: 1-Chlorooctane	*56.9*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*59.2*		"	*50.0*		*118*	*70-130*			
Matrix Spike (EH41207-MS2)		**Source: 4H12008-07**		Prepared: 08/12/04 Analyzed: 08/13/04						
Gasoline Range Organics C6-C12	587	10.0	mg/kg dry	575	ND	102	75-125			
Diesel Range Organics >C12-C35	643	10.0	"	575	ND	112	75-125			
Total Hydrocarbon C6-C35	1230	10.0	"	1150	ND	107	75-125			
Surrogate: 1-Chlorooctane	*56.8*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.7*		"	*50.0*		*103*	*70-130*			
Matrix Spike Dup (EH41207-MSD1)		**Source: 4H12002-04**		Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	526	ND	103	75-125	4.34	20	
Diesel Range Organics >C12-C35	667	10.0	"	526	65.9	114	75-125	2.52	20	
Total Hydrocarbon C6-C35	1210	10.0	"	1050	65.9	109	75-125	0.830	20	
Surrogate: 1-Chlorooctane	*61.2*		*mg/kg*	*50.0*		*122*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.9*		"	*50.0*		*116*	*70-130*			
Matrix Spike Dup (EH41207-MSD2)		**Source: 4H12008-07**		Prepared: 08/12/04 Analyzed: 08/13/04						
Gasoline Range Organics C6-C12	583	10.0	mg/kg dry	575	ND	101	75-125	0.684	20	
Diesel Range Organics >C12-C35	630	10.0	"	575	ND	110	75-125	2.04	20	
Total Hydrocarbon C6-C35	1210	10.0	"	1150	ND	105	75-125	1.64	20	
Surrogate: 1-Chlorooctane	*56.3*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.7*		"	*50.0*		*107*	*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 EH41605 - EPA 5030C (GC)										
Blank (EH41605-BLK1)				Prepared & Analyzed: 08/12/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*86.4*		*ug/kg*	*100*		*86.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*81.3*		*"*	*100*		*81.3*	*80-120*			
LCS (EH41605-BS1)				Prepared: 08/12/04 Analyzed: 08/13/04						
Benzene	93.2		ug/kg	100		93.2	80-120			
Toluene	98.9		"	100		98.9	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	217		"	200		108	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	*97.0*		*"*	*100*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.5*		*"*	*100*		*98.5*	*80-120*			
Calibration Check (EH41605-CCV1)				Prepared: 08/12/04 Analyzed: 08/14/04						
Benzene	93.5		ug/kg	100		93.5	80-120			
Toluene	97.9		"	100		97.9	80-120			
Ethylbenzene	98.3		"	100		98.3	80-120			
Xylene (p/m)	212		"	200		106	80-120			
Xylene (o)	109		"	100		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*96.7*		*"*	*100*		*96.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*94.8*		*"*	*100*		*94.8*	*80-120*			
Matrix Spike (EH41605-MS1)	**Source: 4H12002-03**			Prepared: 08/12/04 Analyzed: 08/15/04						
Benzene	97.9		ug/kg	100	ND	97.9	80-120			
Toluene	95.0		"	100	ND	95.0	80-120			
Ethylbenzene	96.7		"	100	ND	96.7	80-120			
Xylene (p/m)	206		"	200	ND	103	80-120			
Xylene (o)	103		"	100	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*88.2*		*"*	*100*		*88.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*87.0*		*"*	*100*		*87.0*	*80-120*			

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:47

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 EH41605 - EPA 5030C (GC)										
Matrix Spike Dup (EH41605-MSD1)	**Source: 4H12002-03**			Prepared: 08/12/04 Analyzed: 08/15/04						
Benzene	98.4		ug/kg	100	ND	98.4	80-120	0.509	20	
Toluene	96.0		"	100	ND	96.0	80-120	1.05	20	
Ethylbenzene	97.6		"	100	ND	97.6	80-120	0.926	20	
Xylene (p/m)	209		"	200	ND	104	80-120	0.966	20	
Xylene (o)	105		"	100	ND	105	80-120	1.92	20	
Surrogate: a,a,a-Trifluorotoluene	*91.0*		"	*100*		*91.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*91.0*		"	*100*		*91.0*	*80-120*			

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:47

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 EH41301 - General Preparation (Prep)										
Blank (EH41301-BLK1)				Prepared & Analyzed: 08/12/04						
% Solids	100		%							
Duplicate (EH41301-DUP1)	**Source: 4H12001-01**			Prepared & Analyzed: 08/12/04						
% Solids	87.0		%		86.0			1.16	20	
Batch EH41709 - Water Extraction										
Blank (EH41709-BLK1)				Prepared & Analyzed: 08/17/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EH41709-MS1)	**Source: 4H12001-04**			Prepared & Analyzed: 08/17/04						
Chloride	564	20.0	mg/kg Wet	500	74.4	97.9	80-120			
Matrix Spike Dup (EH41709-MSD1)	**Source: 4H12001-04**			Prepared & Analyzed: 08/17/04						
Chloride	574	20.0	mg/kg Wet	500	74.4	99.9	80-120	1.76	20	
Reference (EH41709-SRM1)				Prepared & Analyzed: 08/17/04						
Chloride	4840		mg/kg	5000		96.8	80-120			

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 8/18/04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

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: 104490
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE 100 PPM
AIR BALANCE
LOT NO: 02-22-30
FILL DATE: 5/20/03
EXP. DATE: 11/20/04
ACCURACY: + or - 290
METER READING
ACCURACY: 100.1

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Conoco SEMU Eo1	P	15	20	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
15'N. WALL comp	21.5	N. WALL #4	32.1
12'S. WALL comp	499	N. WALL #5	45.6
15'E. WALL comp	263	S. WALL #1	17.4
15'W. WALL comp	188	S. WALL #2	1068
12' Bott. Comp	1172	S. WALL #3	1310
Bott. #1 12'	35.2	S. WALL #4	788
12' Bott. #2 12'	1012	S. WALL #5	32.6
Bott. #3 12'	457	W. WALL #1	45.6
Bott. #4 12'	374	W. WALL #2	1274
Bott. #5 12'	170	W. WALL #3	506
N. WALL #1	2.5	W. WALL #4	314
N. WALL #2	14.6	W. WALL #5	21.5
N. WALL #3	267	REMO BACKFILL	48.9

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

Joe Batt
Signature

8/16/04
Date

Logger:	Roy Rascon; Mort Bates	**RICE** *Operating Company*	**Well ID:**
Driller:	Atkins Engineering Associates, Inc.		
Drilling Method:	Hollow Stem Auger	**Project Name:**	
Start Date:	3/2/2005	Conoco SEMU EOL	
End Date:	3/2/2005	**Location:**	**SB-1**
Notes:	at former junction box site	EME SWD System	
	TD = 35 ft Groundwater = 78 ft	Unit 'P', Sec. 15, T20S, R37E	
		Lea County, NM	

Depth (feet)	Split Spoon chloride	Split Spoon PID	Description
0.0			0 -12 ft SILTY SAND with CALICHE (backfill) tan, loose, dry
2.0			
4.0			
6.0			
8.0			
10.0		672	
12.0			
			12 - 17 ft CALICHE gray, hard, dry
14.0			
	1101	1281	
16.0			
18.0			17 - 20 ft SILTY SAND gray, loose, dry
20.0	1727	1366	
			20 - 34 ft SILTY SAND with CEMENTED SANDSTONE tan and white, firm, dry
22.0			
24.0			
	572	531	
26.0			
28.0			
30.0	179	38.5	
32.0	117	102	
34.0	135	207	
	48	3.8	34 - 35 ft SAND poorly-graded, loose, moist

Lithology

0-4 ft bentonite seal

remainder of bore hole backfilled with drill cuttings

32-35 ft bentonite seal

Additional Notes

LAB 15 ft (mg/kg)
BTEX = 37.729
Cl^- = 1120

LAB 20 ft (mg/kg)
BTEX = 17.746
Cl^- = 1560

LAB 30 ft (mg/kg)
BTEX = 0.2635
TPH < 25 (non-detect)
Cl^- = 97.6

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 Conoco SEMU EOL

Project Number: None Given

Location: EME

Lab Order Number: 4H12001

Report Date: 08/18/04

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lab Comp. Bottom 2,3,4,5	4H12001-01	Soil	08/06/04 09:07	08/12/04 07:45
Bottom Comp. at 12' bgs	4H12001-02	Soil	08/06/04 10:00	08/12/04 07:45
Lab Comp. South Wall 2,4,5	4H12001-03	Soil	08/06/04 09:30	08/12/04 07:45
South Wall Comp.	4H12001-04	Soil	08/06/04 10:20	08/12/04 07:45

The field bottom composite sample ("Bottom Comp. at 12' bgs") is valid. The other samples were collected incorrectly. KP 12-29-04

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

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lab Comp. Bottom 2,3,4,5 (4H12001-01) Soil									
Benzene	**2.08**	0.0500	mg/kg dry	50	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**24.9**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**25.1**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**38.0**	0.0500	"	"	"	"	"	"	
Xylene (o)	**20.0**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*716 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	
Bottom Comp. at 12' bgs (4H12001-02) Soil									
Benzene	**0.0391**	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**0.531**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.57**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**4.10**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.99**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*127 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**394**	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	**1610**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2000**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*129 %*	*70-130*		"	"	"	"	
Lab Comp. South Wall 2,4,5 (4H12001-03) Soil									
Benzene	**1.25**	0.0500	mg/kg dry	50	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**8.95**	0.0500	"	"	"	"	"	"	
Ethylbenzene	**3.55**	0.0500	"	"	"	"	"	"	
Xylene (p/m)	**27.5**	0.0500	"	"	"	"	"	"	
Xylene (o)	**10.3**	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*700 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*135 %*	*80-120*		"	"	"	"	*S-04*

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
South Wall Comp. (4H12001-04) Soil									
Benzene	**0.0839**	0.0250	mg/kg dry	25	EH41605	08/12/04	08/13/04	EPA 8021B	
Toluene	**0.649**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.507**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**5.90**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.46**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*137 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*131 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**891**	10.0	mg/kg dry	1	EH41207	08/12/04	08/12/04	EPA 8015M	
Diesel Range Organics >C12-C35	**2950**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3840**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*161 %*	*70-130*		"	"	"	"	*S-04*

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

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lab Comp. Bottom 2,3,4,5 (4H12001-01) Soil									
% Solids	**86.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
Bottom Comp. at 12' bgs (4H12001-02) Soil									
Chloride	**1150**	20.0	mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	**88.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
Lab Comp. South Wall 2,4,5 (4H12001-03) Soil									
% Solids	**84.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	
South Wall Comp. (4H12001-04) Soil									
Chloride	**74.4**	20.0	mg/kg Wet	2	EH41709	08/12/04	08/17/04	SW 846 9253	
% Solids	**91.0**		%	1	EH41301	08/12/04	08/12/04	% calculation	

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

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 EH41207 - Solvent Extraction (GC)										
Blank (EH41207-BLK1)				Prepared & Analyzed: 08/12/04						
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	*43.9*		*mg/kg*	*50.0*		*87.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.5*		*"*	*50.0*		*89.0*	*70-130*			
Blank (EH41207-BLK2)				Prepared & Analyzed: 08/12/04						
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	*43.3*		*mg/kg*	*50.0*		*86.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.7*		*"*	*50.0*		*89.4*	*70-130*			
LCS (EH41207-BS1)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	440	10.0	mg/kg wet	500		88.0	75-125			
Diesel Range Organics >C12-C35	484	10.0	"	500		96.8	75-125			
Total Hydrocarbon C6-C35	924	10.0	"	1000		92.4	75-125			
Surrogate: 1-Chlorooctane	*50.4*		*mg/kg*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.4*		*"*	*50.0*		*86.8*	*70-130*			
LCS (EH41207-BS2)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	414	10.0	mg/kg wet	500		82.8	75-125			
Diesel Range Organics >C12-C35	410	10.0	"	500		82.0	75-125			
Total Hydrocarbon C6-C35	824	10.0	"	1000		82.4	75-125			
Surrogate: 1-Chlorooctane	*36.3*		*mg/kg*	*50.0*		*72.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.4*		*"*	*50.0*		*78.8*	*70-130*			
Calibration Check (EH41207-CCV1)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	442		mg/kg	500		88.4	80-120			
Diesel Range Organics >C12-C35	496		"	500		99.2	80-120			
Total Hydrocarbon C6-C35	938		"	1000		93.8	80-120			
Surrogate: 1-Chlorooctane	*49.5*		*"*	*50.0*		*99.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.4*		*"*	*50.0*		*80.8*	*70-130*			

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Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

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 EH41207 - Solvent Extraction (GC)										
Calibration Check (EH41207-CCV2)				Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	465		mg/kg	500		93.0	80-120			
Diesel Range Organics >C12-C35	513		"	500		103	80-120			
Total Hydrocarbon C6-C35	978		"	1000		97.8	80-120			
Surrogate: 1-Chlorooctane	*51.9*		"	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.5*		"	*50.0*		*89.0*	*70-130*			
Matrix Spike (EH41207-MS1)		**Source: 4H12002-04**		Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	518	10.0	mg/kg dry	526	ND	98.5	75-125			
Diesel Range Organics >C12-C35	684	10.0	"	526	65.9	118	75-125			
Total Hydrocarbon C6-C35	1200	10.0	"	1050	65.9	108	75-125			
Surrogate: 1-Chlorooctane	*56.9*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*59.2*		"	*50.0*		*118*	*70-130*			
Matrix Spike (EH41207-MS2)		**Source: 4H12008-07**		Prepared: 08/12/04 Analyzed: 08/13/04						
Gasoline Range Organics C6-C12	587	10.0	mg/kg dry	575	ND	102	75-125			
Diesel Range Organics >C12-C35	643	10.0	"	575	ND	112	75-125			
Total Hydrocarbon C6-C35	1230	10.0	"	1150	ND	107	75-125			
Surrogate: 1-Chlorooctane	*56.8*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.7*		"	*50.0*		*103*	*70-130*			
Matrix Spike Dup (EH41207-MSD1)		**Source: 4H12002-04**		Prepared & Analyzed: 08/12/04						
Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	526	ND	103	75-125	4.34	20	
Diesel Range Organics >C12-C35	667	10.0	"	526	65.9	114	75-125	2.52	20	
Total Hydrocarbon C6-C35	1210	10.0	"	1050	65.9	109	75-125	0.830	20	
Surrogate: 1-Chlorooctane	*61.2*		*mg/kg*	*50.0*		*122*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.9*		"	*50.0*		*116*	*70-130*			
Matrix Spike Dup (EH41207-MSD2)		**Source: 4H12008-07**		Prepared: 08/12/04 Analyzed: 08/13/04						
Gasoline Range Organics C6-C12	583	10.0	mg/kg dry	575	ND	101	75-125	0.684	20	
Diesel Range Organics >C12-C35	630	10.0	"	575	ND	110	75-125	2.04	20	
Total Hydrocarbon C6-C35	1210	10.0	"	1150	ND	105	75-125	1.64	20	
Surrogate: 1-Chlorooctane	*56.3*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.7*		"	*50.0*		*107*	*70-130*			

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

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

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 EH41605 - EPA 5030C (GC)										
Blank (EH41605-BLK1)				Prepared & Analyzed: 08/12/04						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*86.4*		*ug/kg*	*100*		*86.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*81.3*		*"*	*100*		*81.3*	*80-120*			
LCS (EH41605-BS1)				Prepared: 08/12/04 Analyzed: 08/13/04						
Benzene	93.2		ug/kg	100		93.2	80-120			
Toluene	98.9		"	100		98.9	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	217		"	200		108	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	*97.0*		*"*	*100*		*97.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.5*		*"*	*100*		*98.5*	*80-120*			
Calibration Check (EH41605-CCV1)				Prepared: 08/12/04 Analyzed: 08/14/04						
Benzene	93.5		ug/kg	100		93.5	80-120			
Toluene	97.9		"	100		97.9	80-120			
Ethylbenzene	98.3		"	100		98.3	80-120			
Xylene (p/m)	212		"	200		106	80-120			
Xylene (o)	109		"	100		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	*96.7*		*"*	*100*		*96.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*94.8*		*"*	*100*		*94.8*	*80-120*			
Matrix Spike (EH41605-MS1)	**Source: 4H12002-03**			Prepared: 08/12/04 Analyzed: 08/15/04						
Benzene	97.9		ug/kg	100	ND	97.9	80-120			
Toluene	95.0		"	100	ND	95.0	80-120			
Ethylbenzene	96.7		"	100	ND	96.7	80-120			
Xylene (p/m)	206		"	200	ND	103	80-120			
Xylene (o)	103		"	100	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*88.2*		*"*	*100*		*88.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*87.0*		*"*	*100*		*87.0*	*80-120*			

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

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

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 EH41605 - EPA 5030C (GC)										
Matrix Spike Dup (EH41605-MSD1)	**Source: 4H12002-03**			Prepared: 08/12/04 Analyzed: 08/15/04						
Benzene	98.4		ug/kg	100	ND	98.4	80-120	0.509	20	
Toluene	96.0		"	100	ND	96.0	80-120	1.05	20	
Ethylbenzene	97.6		"	100	ND	97.6	80-120	0.926	20	
Xylene (p/m)	209		"	200	ND	104	80-120	0.966	20	
Xylene (o)	105		"	100	ND	105	80-120	1.92	20	
Surrogate: a,a,a-Trifluorotoluene	*91.0*		"	*100*		*91.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*91.0*		"	*100*		*91.0*	*80-120*			

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

Rice Operating Co.	Project: EME Conoco SEMU EOL	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	08/18/04 12:45

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 EH41301 - General Preparation (Prep)										
Blank (EH41301-BLK1)				Prepared & Analyzed: 08/12/04						
% Solids	100		%							
Duplicate (EH41301-DUP1)		Source: 4H12001-01		Prepared & Analyzed: 08/12/04						
% Solids	87.0		%		86.0			1.16	20	
Batch EH41709 - Water Extraction										
Blank (EH41709-BLK1)				Prepared & Analyzed: 08/17/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EH41709-MS1)		Source: 4H12001-04		Prepared & Analyzed: 08/17/04						
Chloride	564	20.0	mg/kg Wet	500	74.4	97.9	80-120			
Matrix Spike Dup (EH41709-MSD1)		Source: 4H12001-04		Prepared & Analyzed: 08/17/04						
Chloride	574	20.0	mg/kg Wet	500	74.4	99.9	80-120	1.76	20	
Reference (EH41709-SRM1)				Prepared & Analyzed: 08/17/04						
Chloride	4840		mg/kg	5000		96.8	80-120			

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 8/18/04

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Jeanne Mc Murrey, Inorg. Tech Director
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