1R - 427 - 81

APPROVALS

YEAR(S):

Hansen, Edward J., EMNRD

From:	Hansen, Edward J., EMNRD
Sent:	Monday, June 10, 2013 2:39 PM
То:	Hack Conder (hconder@riceswd.com)
Cc:	Leking, Geoffrey R, EMNRD; Laura Pena (lpena@riceswd.com); Katie Jones
	<kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)</kjones@riceswd.com>
Subject:	Remediation Plan (1R427-81) Termination - ROC EME M-9 Site

RE: Termination Request for the Rice Operating Company's EME M-9 Site Unit Letter M, Section 9, T20S, R37E, NMPM, Lea County, New Mexico Remediation Plan (1R427-81) Termination

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated June 3, 2013 (received June 6, 2013). The reports are acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R427-81) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 9255

RECEIVED

June 3, 2013

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 **JUN - 6 2013**

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: Termination Request EME M-9 (1R427-81): UL/M, Sec. 9, T20S, R37E RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background

In 2002, ROC initiated work on the former M-9 junction box. The site is located in UL/M, Sec. 9, T20S, R37E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 18 +/- feet. On April 2, 2002, a monitoring well (MW-1) was installed a few feet south of the former junction boxes to further access if groundwater was impacted.

Excavation operations began with the removal of the junction boxes according to the Redwood Tank Replacement/Closure Plan for EME SWD Site M-9, including the M-9 box, on J une 19, 2002. A fter the former junction box was removed, the site was delineated using a backhoe to collect soil samples at regular intervals, creating a 110x100x20 ft deep excavation. Each sample was field titrated for chlorides, resulting in low concentrations. Representative composite samples of the excavation bottom and the excavation walls were sent to a commercial for analysis of chloride, TPH and BTEX, resulting in a sidewall chloride concentration of 245 m g/kg and concentrations of gasoline range organics (GRO), diesel range organics (DRO) and BTEX below detectable limits. The bottom composite resulted in a chloride concentration of 95 mg/kg and concentrations of GRO, DRO and BTEX below detectable limits. The site was backfilled

to 4 ft below ground surface (BGS) where a compacted red-bed clay layer was installed and density tested. The clay layer will provide a barrier that will inhibit the downward migration of chlorides to groundwater. The excavation was backfilled with remediated soil to ground surface and contoured to the surrounding area. The remediated soil was tested in 3 ft lifts, resulting in low concentrations of chloride. A junction box is no longer necessary. The location is within an active facility; therefore, seeding is not necessary.

Due to the horizontal extent of the excavation, MW-1 was lost and a replacement monitor well (MW-1A) was installed adjacent to the southeast corner of the excavated area. From 2003 to 2007, six additional monitor wells were installed under the Stage 1 A batement Plan for M-9 SWD (AP-65) and have since been plugged and abandoned.

On July 24, 2009, a termination request was submitted to NMOCD for the M-9 SWD facility site, which is inclusive of M-9, based on chloride concentrations in the vadose zone of all borings, monitoring wells, and excavations averaging less than 250 mg/kg, which is representative of background levels. The excavation, backfilling, and installation of a clay layer performed by ROC mitigated any potential threat of constituents of concern (BTEX, chlorides, or TDS) from the area into the vadose zone or groundwater. Groundwater quality conditions on site are at or near background levels and six years of groundwater monitoring have supported the conclusions herein. NMOCD approved the termination request on September 22, 2009.

The junction box site location map, area map, final report, laboratory analysis and current photodocumentation are attached.

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

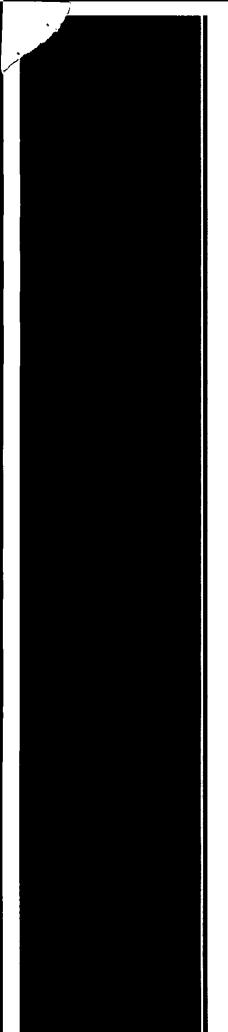
Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely, RICE Operating Company

Hack Conder Environmental Manager

RECEIVED OCD

enclosures



Site Maps

RICE Operating Company (ROC) 112 West Taylor Hobbs, NM 88240

Phone: (575) 393-9174 Fax: (575) 397-1471

Site Location Map



Area Map



Junction Box Report

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

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				BOX LOC	ATION				
SWD SYSTEM	JUNCTION	UNIT	SECTION	I TOWNSHIP	RANGE	COUNTY		DIMENSIONS	
EME	M-9	м	9	205	37E	Lea	Length	Width 10	Depth 7
LAND TYPE:	BLM	STATE	FEE l	ANDOWNER	<u>sn</u>	/ Cattle	1,		······································
Depth to Grou	ndwater	<50`	feet	NMOCD	SITE ASSE	SSMENT I	RANKING	SCORE:	20
Date Started	02/19/	2002	Date C	ompleted	02/19/2002		Witness	<u> </u>	lo
Soil Excavated	I0	cubic ya	rds E	xcavation Le	ingth <u>15`</u>	Width	10	Depth 7	feet
Soil Disposed	l0	cubic ya	rds C	Offsite Facility	no	ne	Locatio	n	попе
FINAL ANAL	YTICAL R	ESULT	S: Sam	ple Date	02/19/2	002	Sample	Depth	7` bgs
P	rocure 5-point BTEX and C	hloride lab	oratory tea	of bottom and at results com as pursuant to	pleted by us	ing an app			
Sample	Benzene		uene	Ethyl Benzene	Total Xylen	L	RO	DRO	Chlorides
Location SIDEWALLS	<u>ma/kg</u> <0.005		<u>1/ka</u>	 >0.005	ma/ka <0.015		a/kg 10.0	<u>_ma/ka</u> <10.0	PPM 176
BOTTOM	<0.005		005	<0.005	<0.015		10.0	<10.0	96
General Descripti							CHLC	ORIDE FIELD	TESTS
sample was take	n and the resu	ilts were 17	75 ppm cł	nlorides. A co	mpacted cla	iy L	OCATION	DEPTH	L Chlorides
liner was installed	to slow the m	nigration of	any impa	ct left in the s	oil. A water		B Comp	7`bgs	175 ppm
tight junction box	was installed	and then b	ackfilled.				W Comp	2`-7` bg	s 100 ppm
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I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AN COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE	March 11, 2002	PRINTED NAME	Chris Rodriguez	
SIGNATURE	Chin Ledingue		Environmental Technician	
	10			

ANALYTICAL REPORT

Prepared for:

LOGAN ANDERSON RE ENVIRONMENTAL P.O. BOX 13418 ODESSA, TX 79768

Project: PO#: Rice

107.

 Order#:
 G0204401

 Report Date:
 09/04/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

RE ENVIRONMENTAL P.O. BOX 13418 ODESSA, TX 79768 366-0804

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Order#: G0204401 Project: Project Name: Rice Location: M-9 EME

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

			Date / Time	Date / Time		
Lab ID:	Sample :	Matrix:	_Collected	Received	Container	Preservative
0204401-01	Bottom Composite @20	SOIL	8/28/02 15:00	8/29/02 16:30	4 oz Giass	Ice
<u>La</u>	<u>b Testing:</u>	Rejected: No	Ten	ι <u>ρ</u> : 0.5C	-`	
	8015M					
	8021B/5030 BTEX			•		•
	Chloride				· · · · · · · · · · · · · · · · · · ·	

ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

LOGAN ANDERSON RE ENVIRONMENTAL	Order#: Project:	G0204401
P.O. BOX 13418	Project Name:	Rice
ODESSA, TX 79768	Location:	M-9 EME

Lab ID: 0204401-01

Sample ID:

Bottom Composite @20'

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u> 8/30/02	8015M Sumple <u>Amount</u> 1	Dilution <u>Factor</u> 1	<u>Anaiyst</u> CK	Method 8015M
	Parameter		Result mg/kg	F	RL	
	GRO, C6-C12		<10.0		10.0	
	DRO, >C12-C35		<10.0		10.0	
	TOTAL, C6-C35		<10.0	.	10.0	

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sampie <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0003022-02		9/1/02 9:30	1	25	CK	8021B

Parameter	Result mg/kg	RL
Велzепе	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	< 0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)		
aaa-Toluene	106%	80	120	
Bromofluorobenzene	119%	80	120	

Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

LOGAN ANDE RE ENVIRONI P.O. BOX 1341 ODESSA, TX	MENTAL 8		Order# Project Project Locatio	Name:	G0204401 Rice M-9 EME	·		
Lab ID: Sample ID:	0204401-01 Bottom Composite @20'						<u> </u>	
Test Paran Parameter	neters	Result	Units	Dilutio <u>Facto</u>		Method	Date Analyzed	Analyst
Chloride		94.5	mg/kg	1	20	9253	9/4/02	SB

91 Approval: Date

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

 $RL \approx Reporting Limit$ N/A = Not Applicable

Page 1 of 1

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8015M

Order#: G0204401

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003018-02			<10.0	·	
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-ing/kg		0204400-04	198	952	1124	97.3%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204400-04	198	952	1144	99.4%	1.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003018-05		1000	1030	103.%	

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ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8021B/5030 BTEX

Order#: G0204401

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr,	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	·	0003022-02			<0.025		
Ethylbenzene-mg/kg		0003022-02			<0.025		
Toluene-mg/kg	<u>.</u>	0003022-02			<0.025		
p/m-Xylene-mg/kg	· · · ·	0003022-02			<0.025		
o-Xylene-mg/kg		0003022-02		· · · · · ·	<0.025	++	
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204388-07	0	0.1	0.089	89.%	
Ethylbenzene-mg/kg		0204388-07	0	0.1	0.090	90.%	
Toluene-mg/kg		0204388-07	0	0.1	0.091	91.%	
p/m-Xylene-mg/kg	••	0204388-07	0	0.2	0.188	94.%	<u>-</u>
o-Xylene-mg/kg		0204388-07	0	0.1	0.091	91.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	· · · · · · · · · · · · · · · · · · ·	0204388-07	0	0.1	0.094	94.%	5.5%
Ethylbenzene-mg/kg		0204388-07	0	0.1	0.095	95.%	5.4%
Toluene-mg/kg		0204388-07	0	0.1	0.097	97.%	6.4%
p/m-Xyiene-mg/kg		0204388-07	0	0.2	0.198	99.%	5.2%
Xylene-mg/kg		0204388-07	0	0.1	0.095	95.%	4.3%
نة RM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
Benzene-mg/kg		0003022-05		0.1	0.096	96.%	
Ethylbenzene-mg/kg		0003022-05		0.1	0.097	97.%	
Toluenc-mg/kg		0003022-05		0.1	0.098	98.%	
p/m-Xylene-mg/kg		0003022-05		0.2	0.201	100.5%	
o-Xylene-mg/kg		0003022-05		0.1	0.097	97.%	

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Test Parameters

Order#: G0204401

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003049-01		_	<20.0	· · · · ·	
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204401-01	94.5	667	756	99.2%	<u> </u>
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
Chloride-mg/kg		0204401-01	94.5	667	744	97.4%	1.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003049-04	,	5000	4960	99.2%	

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ANALYTICAL REPORT

Prepared for:

LOGAN ANDERSON RE ENVIRONMENTAL P.O. BOX 13418 ODESSA, TX 79768

Project: Rice PO#:

Order#: G0204422

Report Date: 09/06/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

RE ENVIRONMENTAL P.O. BOX 13418 ODESSA, TX 79768 366-0804 Order#:G0204422Project:Project Name:RiceLocation:M-9

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u> 0204422-01	<u>Sample :</u> S pt. Wall Comp. @ 13'	<u>Matrix:</u> SOIL	Date / Time <u>Collected</u> 8/30/02 15:00	Date / Time <u>Received</u> 9/3/02 11:30	Container 4 oz glass	<u>Preservative</u> Ice
<u>La</u>	<u>ub Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		mp: 16.5 C		. · .
0204422-02 <u>La</u>	4 pt. Bottom Comp. @ 16'	SOIL Rejected: No	8/30/02 15:00 Tex	9/3/02 11:30 mp: 16.5 C	4 oz glass	Ice
	8015M 8021B/5030 BTEX Chloride					

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ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT

LOGAN ANDER RE ENVIRONM P.O. BOX 13418 ODESSA, TX 7	1ENTAL 3		• • • • • • •	Order#: Project: Project Name Location:	e: F	30204422 Rice 1-9		
Lab ID:	0204422-01							
Sample ID:	5 pt. Wall Comp.	. @ 13'						
			80	15M				
	Method	Date	Date	Sample	Dilu	tion		
	Blank	Prepared	Analyzed	Amount	Fac	tor <u>Analyst</u>	Method	
			9/3/02	1	1	CK	8015M	
		Parameter GRO, C6-C12 DRO, >C12-C35 TOTAL, C6-C35	· · · · · · · · · · · · · · · · · · ·	Result mg/kg <10.0 <10.0 <10.0		RL 10.0 10.0 10.0		•
	Method <u>Blank</u>	Date Prepared	Date <u>Analyzed</u>	030 BTEX Sample <u>Amount</u>	Dilut <u>Fact</u>	or <u>Analyst</u>	Method	
	0003053-02		9/5/02 13:19	1 Result	25	CK RL	8021B	
	· .	Parameter Benzene		mg/kg <0.025		0.025		

Benzenc	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	114%	80	120
Bromofluorobenzene	115%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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Page 1 of 2.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

OGAN ANDER E ENVIRONM O. BOX 13418 DESSA, TX 79	ENTAL			Order#: Project: Project Name Location:	G0204 : Rice M-9	422		
Lab ID:	0204422-02							
Sample ID:	4 pt. Bottom Con	np. @ 16'						
	-			8015M			•	
	Method Blank	Date <u>Prepared</u>	Date <u>Analvzed</u>	Sample <u>Amount</u>	Dilution Factor	<u>Anaiyst</u>	Method	
			9/3/02	1	1	CK	8015M	
		Parameter		Result mg/kg		RL		
		GRO, C6-C12		<10.0		10.0		
•		DRO, >C12-C35		. 50.3		10.0	<i>·</i> .	
. ``		TOTAL, C6-C35		50.3		10.0		
	Method	Date	Date	-	Dilution	-		
	Method <u>Blank</u> 0003053-02	Prepared	Date <u>Analyzed</u> 9/5/02		Dilution <u>Factor</u> 25	<u>Analyst</u> CK	Method 8021B	
	<u>Blank</u>	Prepared	Date Analyzed	Sample <u>Amount</u>	<u>Factor</u>			
	<u>Blank</u>	Prepared	Date <u>Analyzed</u> 9/5/02	Sample <u>Amount</u>	<u>Factor</u>			•
	<u>Blank</u> 0003053-02	<u>Prepared</u> Parameter Benzene	Date <u>Analyzed</u> 9/5/02	Sample <u>Amount</u> 1 Result mg/kg <0.025	Factor 25	CK RL 0.025		•
	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene	Date <u>Analyzed</u> 9/5/02	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025	Factor 25	CK RL 0.025 0.025		
	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene Toluene	Date <u>Analyzed</u> 9/5/02	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025	Factor 25	CK RL 0.025 0.025		•
	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene	Date <u>Analyzed</u> 9/5/02	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025	<u>Factor</u> 25	CK RL 0.025 0.025 0.025 0.025		
	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene Toluene	Date <u>Analyzed</u> 9/5/02	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025	<u>Factor</u> 25	CK RL 0.025 0.025		•
	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene	Date <u>Analyzed</u> 9/5/02 14:25	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025 <0.025	<u>Factor</u> 25	CK RL 0.025 0.025 0.025 0.025 0.025		
	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene	Date <u>Analyzed</u> 9/5/02 14:25	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025 <0.025	Factor 25	CK RL 0.025 0.025 0.025 0.025 0.025		
· ·	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene Surrogate	Date <u>Analyzed</u> 9/5/02 14:25	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	Factor 25	CK RL 0.025 0.025 0.025 0.025 0.025		
	<u>Blank</u> 0003053-02	Prepared Parameter Benzene Ethylbenzene Toluene p/m-Xylene o-Xylene Surrogate aaa-Toluene	Date <u>Analyzed</u> 9/5/02 14:25	Sample <u>Amount</u> 1 Result mg/kg <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0.025 <0	Factor 25 QC Limits 80 1 80 1 al: QC	CK RL 0.025 0.025 0.025 0.025 0.025 (%) 20	8021B	<u>9-06-02</u> Date

Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

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Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

LOGAN ANDE RE ENVIRON P.O. BOX 1341 ODESSA, TX	MENTAL 18		Order Projec Projec Locati	et: et Name: 1	50204422 Rice 14-9			·
Lab ID:	0204422-01							
Sample ID:	5 pt. Wall Comp. @ 13'							
Test Paran	neters			Dilution		•	Date	
Parameter		Result	Units	<u>Factor</u>	$\underline{\mathbf{RL}}$	Method	Analyzed	Analyst
Chloride		245	mg/kg	1	- 20	9253	9/4/02	SB
Lab ID:	0204422-02				-			· · · · · · ·
Sample ID:	4 pt. Bottom Comp. @ 16'				••			
Test Paran	neters			Dilution			Date	
Parameter		Result	Units	Factor	$\underline{\mathbf{RL}}$	Method	Analyzed	Analyst
Chloride		354	mg/kg	1	20	9253	9/4/02	SB .
		· · ·	<u> </u>				1.5.	
				Approval:		andl.	juia	9-06-0
				Raland K.,	Tuttle, Lab I	irector, QA Offi	cer D	ate

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezughe, Lab Tech. Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

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Page 1 of 1

8015M

Order#: G0204422

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003048-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003048-03		952	1003	105.4%	·
CONTROL DUP	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003048-04	· · · · · · · · · · · · · · · · · · ·	952	992	104.2%	1.1%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0003048-05	i	1000	1040	104.%	

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8021B/5030 BTEX

Order#: G0204422

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003053-02		· · · · · · · · · · · · · · · · · · ·	<0.025		
Ethylbenzene-mg/kg		0003053-02			<0.025		
Toluene-mg/kg		0003053-02		1	<0.025		<u> </u>
p/m-Xylene-mg/kg		0003053-02	 _		<0.025		
o-Xylene-mg/kg		0003053-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204422-01	0	0.1	0.093	93.%	
Ethylbenzene-mg/kg		0204422-01	0	0.1	0.095	95.%	
Toiuene-mg/kg		. 0204422-01	0	0.1	0.095	95.%	
p/m-Xylene-mg/kg		0204422-01	0	0.2	0.196	98.%	
o-Xylene-mg/kg		0204422-01	<u>0</u>	0,1	0.095	95.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204422-01	0	0.1	0.094	94.%	1.1%
Ethylbenzene-mg/kg		0204422-01	0	0.1	0.096	96.%	1.%
Foluene-mg/kg		0204422-01	0	0.1	0.096	96.%	1.%
p/m-Xyiene-mg/kg		0204422-01	0	0.2	0.198	99.%	1.%
Cylene-mg/kg		0204422-01	0	0.1	0.096	96.%	1.%
.RM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003053-05		0.1	0.105	105.%	
Ethylbenzene-mg/kg		0003053-05		0.1	0.105	105.%	
foluene-mg/kg		0003053-05	,,,,,	0.1	0.108	108.%	
o/m-Xylene-mg/kg		0003053-05		0.2	0.215	107.5%	
-Xylene-mg/kg		0003053-05		0.1	0.104	104.%	

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Test Parameters

Order#: G0204422

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003050-01			<20.0		
MS	son	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	<u> </u>	0204410-15	5320	5000	10300	99.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204410-15	5320	5000	10200	97.6%	1.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003050-04		5000	4960	99.2%	·

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Current Photodocumentation

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

EME M-9 (1R427-81) UL/M, Section 9, T20S, R37E



Facing East

3/26/2013



Facing South

3/26/2013