AP-71

ANNUAL GW MONITOR REPORT

YEAR(S): 2006



Ap-71 Annual GW Mon. Report 2006

2007 MAR 2 PM 12 394

Suite 300 Midland Texas 79701 Tel 432 687 5400

1004 North Big Spring Street

ARCADIS G&M, Inc.

Sent Certified Mail Return Receipt No. 7002 2410 0001 5812 9817

Tel 432 687 5400 Fax 432 687 5401 www.arcadis-us.com

Mr. Ed Hansen New Mexico Energy, Minerals, & Natural Resources Dept. Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Environmental

Subject:

2006 MONITOR WELL REPORT/SAMPLING SUMMARY BD H-35 Emergency Overflow Pit

SEC. 35, T22S, R37E NMOCD CASE # 1R0216 Date:

22 February 2007

Contact:

Sharon E. Hall

Phone:

432 687-5400

Fmail

shall@arcadis-us.com

Our ref:

MT000846.0001

Dear Mr. Hansen:

On behalf of Rice Operating Company (ROC), ARCADIS G&M, Inc. (ARCADIS) respectfully submits the 2006 Monitor Well Report for the <u>BD H-35 Emergency Overflow Pit</u> site located at the H-35 facility on the Blinebry-Drinkard Salt Water Disposal System.

One monitoring well was installed on December 21, 2005. A water level was recorded at 43.83 feet below measuring point.

The well was sampled quarterly in 2006 per NMOCD guidelines. The attached table summarizes the analytical results from groundwater samples collected from the monitor wells at the site. 2006 groundwater laboratory reports are also attached.

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

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

Sincerely,

ARCADIS

Mr. Ed Hansen
22 February 2007

ARCADIS G&M, Inc.

Shan E. Had

Site Evaluation Department Manager

Copies

Kristin Farris Pope-ROC (3 copies)

Use or disclosure of information contained on this sheet is subject to the restriction and disclaimer located on the signature page of this document.

Hall, Sharon

From:

Hall, Sharon

Sent:

Thursday, February 22, 2007 4:24 PM

To:

'Hansen, Edward J., EMNRD'

Cc:

Kristin Farris Pope (kpope@riceswd.com)

Subject:

ROC BD H-35 Emergency Overflow Pit Annual Report (NMOCD case #1R0216)

Attachments: Lab Results 7 19 06.pdf; 10 11 06.pdf; BD H-35 SWD Lab Results 1 04 06.pdf; gw.pdf; Lab 4

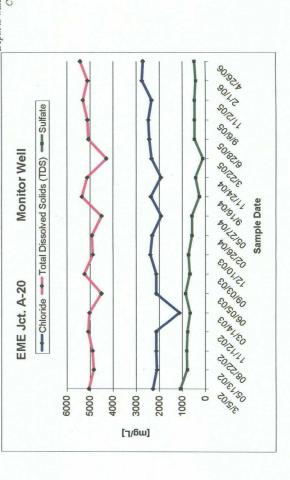
24 06.pdf; 2006 annual report.pdf

Ed. on behalf of ROC I am respectfully submitting the annual report for the BD H-35 site, NMOCD case number 1R0216. This is one of the sites you were going to see about a new case number. I am sending you a hard copy and CD in the mail. Regards, Sharon

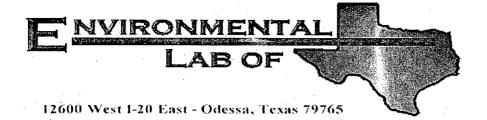
Sharon E. Hall PG, REM Site Evaluation Department Manager ARCADIS G&M Inc. 1004 N. Big Spring Street, Suite 300 Midland, Texas 79701 ph: 432 687-5400 fax:432 687-5401

													-	5					_		100					
	COMMENTS		12"oil	15.5" oil	oil film								oil; strong odor; gray	oil; strong odor, gray			Heavy skim	of oil;	gray, odor	Heavy skim	of oil:	Petroleum	Odor			Heavy skim of Oil
	SULFATE	1087	793	822	780	673	875	629	731	588	588	273	422	125	481	486		10.4	101				434	482	8.96	44.7
	TOTAL	0.014	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX		0.1550	0.1330				0.3009	0.1248	9980.0	0.1489
ng/L	ETHYL TOTAL BENZENE XYLENES	900.0	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX		30300	0.0055				0.145	0.0694	0.0823	0.124
All concentrations are in mg/L	TOLUENE	0.003	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXXX	XXX	XXX	XXX	XXX	XXX		30100	0.0123				0.0435	0.00849	<0.0200	0.0187
All concentra	BENZENE	<0.002	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX		0.0000	0.00045				0.0139	j[0.00433]	0.0341	0.0409
	TDS	5044	4840	4890	5070	5020	4500	5240	4870	4900	4480	5340	5110	4290	9090	5100		5310	2510				5100	5430	4010	4050
	CI	2279	2100	2130	2130	1120	2130	2130	2390	2300	1910	2360	1930	2330	2430	2460		0000	7550				2750	2700	1090	1830
	SAMPLE DATE	3/5/02	05/13/02	08/22/02	11/12/02	03/14/03	06/05/03	09/03/03	12/10/03	02/26/04	05/27/04	9/16/04	11/24/04	3/22/05	6/28/05	50/9/6		30/0/11	11/7/02				2/1/06	4/26/06	7/24/06	10/17/06
(gal)	VOLUME PURGED	6.70	9.00	00.9	6.50	08.0	1.30	1.20	1.30	2.50	1.30	XXX	09'9	XXX	4.32	4.18		000	8.00				8.00	8.00	8.00	8.00
(8)	WELL	2.200	2.000	1.960	2.125	0.280	0.448	0.400	0.448	0.860	0.448	XXX	2.210	XXX	XXX	XXX		000	7.400				2.400	2.400	2.300	2.400
9 (TOTAL	38.40	38.22	38.25	38.25	38.00	26.00	26.00	26.00	26.50	26.00	XXX	38.36	XXX	32.00	32.00		2000	58.30				38.36	38.36	38.36	38.36
(ft)	DEPTH TO WATER *	24.70	25.62	26.00	24.97	26.20	23.20	23.42	23.20	25.64	23.02	XXX	24.53	22.39	23.40	23.45		22 42	25.45			20	23.22	23.20	23.84	23.60
	# MI	_	1	_		1	-	-	-	-		1	1	-	-	-		,	-	8				1	_	-

* Depth to water measured from top of casing



	ARC					벁	LD MEA	SUREM	ENT/OB	FIELD MEASUREMENT/OBSERVATION LOG)G
ENVIRONMENTAL	SONN	MENT	AL	PROJECT NAME: RICE Operating C	PROJECT NAME: RICE Operating Company	pany		NM=Not Measured NA=Not Applicable	asured plicable	PROJECT NUMBER: EME Jct. A-20	
PROJECT MANAGER: Kristin Farris Pope - Rice Operating Company	NAGER: Pope - Rice	e Operating	l Company			FIELD TECHNI Rozanne John: Environmental	FIELD TECHNICIAN: Rozanne Johnson Environmental		Arc	DATE: Weekly Gauge April 2006-June 2006	Φ.
WELL# /SAMPLE LOCATION	TOTAL WELL DEPTH (feet)	DEPTH TO PRODUCT (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	PSH THICKNESS (feet)	WELL FACTOR 2"=.16 4"=.65 6"=1.5	PSH Removed (gallons)	Water Removed (gallons)	TOTAL PURGED (gal)	DATE SAMPLE TAKEN	Comments
MW-1	NM	23.20	23.20	NN	00.00	NA	0.00	0.00	0.00	4/13/06	2 Sock Stained to 6" Sock Turned Over. Light skim of hydrocarbon.
MW-1	ΣZ	23.20	23.20	N	0.00	NA	00.00	0.00	0.00	4/25/06	2' Sock Stained to 7". Sock Replaced. Light skim of hydrocarbon.
MW-1	ΣZ	23.26	23.26	NM	0.00	NA	00.00	0.00	00:0	90/71/9	 Sock Stained to 9". Sock Replaced. Light skim of hydrocarbon.
MW-1	ΣZ	23.29	23.29	NM	0.00	NA	0.00	0.00	0.00	90/52/9	 Sock Stained to 14". Sock Replaced. Light skim of hydrocarbon.
MW-1	N	23.31	23.31	NM	0.00	NA	0.00	0.00	0.00	6/1/06	 Sock Stained to 11". Sock Replaced. Light skim of hydrocarbon.
MW-1	NM	23.38	23.38	ΝN	00.00	ΝΑ	00.0	00.0	0.00	6/15/06	2' Sock Stained to 8". Sock Replaced. Light skim of hydrocarbon.
MW-1	N	23.42	23.42	NN	0.00	NA	00'0	0.00	0.00	90/52/9	2' Sock Stained to 9". Sock Replaced. Light skim of hydrocarbon.
MW-1		·									
MW-1				,							
MW-1											
MW-1								·			
MW-1											
MW-1											



Analytical Report

Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: EME Jct. A-20
Project Number: None Given
Location: Lea County

Lab Order Number: 6B02003

Report Date: 02/09/06

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 02/09/06 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6B02003-01	Water	02/01/06 10:15	02/02/06 09:00

Project Number: EME Jct. A-20
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/09/06 16:15

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6B02003-01) Water									
Benzene	0.0139	0.00100	mg/L	1	EB60304	02/03/06	02/07/06	EPA 8021B	
Toluene	0.0435	0.00100	*	•	п		. 11	"	
Ethylbenzene	0.145	0.00100	*1	н	."	n	**	"	
Xylene (p/m)	0.208	0.00100	n	**	4	"	"	Ħ	
Xylene (o)	0.0929	0.00100	44	"	"	"	**		
Surrogate: a,a,a-Trifluorotoluene		172 %	80-12	0	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		160 %	80-12	0	"	"	"	"	S-04

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 02/09/06 16:15

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6B02003-01) Water									
Total Alkalinity	302	2.00	mg/L	1	EB60901	02/08/06	02/08/06	EPA 310.1M	
Chloride	2750	25.0	"	50	EB60614	02/04/06	02/06/06	EPA 300.0	
Total Dissolved Solids	5100	5.00	"	1	EB60302	02/02/06	02/02/06	EPA 160.1	
Sulfate	434	25.0	. "	50	EB60614	02/04/06	02/06/06	EPA 300.0	

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: .02/09/06 16:15

Total Metals by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method .	Notes
Monitor Well #1 (6B02003-01) Water									
Calcium	384	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	274	0.0500	**	tr	. ,	u	**	. "	
Potassium	26.5	0.500	*	10		"	**	п	
Sodium	1220	2.00	н	200	*		"		

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 02/09/06 16:15

Organics by GC - Quality Control Environmental Lab of Texas

Analyta	D l .	Reporting	T I - 1:	Spike	Source	0/DEC	%REC	nes	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB60304 - EPA 5030C (GC)								·····		
Blank (EB60304-BLK1)				Prepared: (02/03/06 An	alyzed: 02	/07/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	n	,						
Ethylbenzene	ND	0.00100	Ħ							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"		•					
Surrogate: a,a,a-Trifluorotoluene	38.0		ug/l	40.0		95.0	80-120		***************************************	
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120			•
LCS (EB60304-BS1)				Prepared: (02/03/06 An	alyzed: 02	/06/06			
Benzene	0.0463	0.00100	mg/L	0.0500		92.6	80-120			
Toluene	0.0483	0.00100	19	0.0500		96.6	80-120			
Ethylbenzene	0.0470	0.00100	n	0.0500		94.0	80-120	* .		
Xylene (p/m)	0.0883	0.00100	н	0.100		88.3	80-120			
Xylene (o)	0.0433	0.00100	11	0.0500		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.6		ug/l	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	35.3		"	40.0		88.2	80-120			
Calibration Check (EB60304-CCV1)				Prepared: 0	02/03/06 An	alyzed: 02	/07/06			
Benzene	46.1		ug/l	50.0		92.2	80-120			
Toluene	50.2		**	50.0		100	80-120			
Ethylbenzene	50.8		*	50.0		102	80-120			
Xylene (p/m)	94.4		**	100		94,4	80-120			
Xylene (o)	47.4		**	50.0		94.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.7		"	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	35.9		**	40.0		89.8	80-120			
Matrix Spike (EB60304-MS1)	Sou	rce: 6A30005-	06	Prepared: 0	02/03/06 An	alyzed: 02	/07/06			
Benzene	0.0488	0.00100	mg/L	0.0500	0.00119	95.2	80-120			
Toluene	0.0496	0.00100	"	0.0500	0.000302	98.6	80-120			
Ethylbenzene	0.0514	0.00100	17	0.0500	0.000224	102	80-120			
Xylene (p/m)	0.0975	0.00100	**	0.100	0.000882	96.6	80-120			
Xylene (o)	0.0496	0.00100	**	0.0500	ND .	99.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.5		ug/l	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	44.8		"	40.0		112	80-120			

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 02/09/06 16:15

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Matrix Spike Dup (EB60304-MSD1)	Sour	ce: 6A30005-	06	Prepared:	02/03/06 An	alyzed: 02	2/06/06		
Benzene	0.0460	0.00100	mg/L	0.0500	0.00119	89,6	80-120	6.06	20
Toluene	0.0477	0.00100		0.0500	0.000302	94.8	80-120	3.93	20
Ethylbenzene	0.0501	0.00100	n	0.0500	0.000224	99.8	80-120	2.18	20
Xylene (p/m)	0.0938	0.00100	n	0.100	0.000882	92.9	80-120	3.91	20
Xylene (o)	0.0483	0.00100	**	0.0500	ND	96.6	80-120	2.66	20
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/l	40.0		101	80-120		
Surrogate: 4-Bromofluorobenzene	41.5		"	40.0	•	104	80-120		

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 02/09/06 16:15

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 EB60302 - General Preparation (WetChem)					-			,	
Blank (EB60302-BLK1)				Prepared &	Analyzed:	02/02/06				
Total Dissolved Solids	ND	.5.00	mg/L						,	
Duplicate (EB60302-DUP1)	Sou	rce: 6B01010-	01	Prepared &	. Analyzed:	02/02/06				
Total Dissolved Solids	790	5,00	mg/L		794			0.505	5	
Batch EB60614 - General Preparation (WetChem)							· ·		
Blank (EB60614-BLK1)				Prepared: (02/04/06 A	nalyzed: 02	2/06/06			
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"	•						
LCS (EB60614-BS1)				Prepared: ()2/04/06 A	nalyzed: 02	2/06/06			
Chloride	8.99		mg/L	10.0		89.9	80-120			
Gulfate	8.40		**	10.0		84.0	80-120			
Calibration Check (EB60614-CCV1)				Prepared: ()2/04/06 A	nalyzed: 02	2/06/06			
Chloride	8.93	· · · · · · · · · · · · · · · · · · ·	mg/L	10.0		89.3	80-120			
Sulfate	8.63		"	10.0		86.3	80-120			
Ouplicate (EB60614-DUP1)	Sou	rce: 6B01010-	01	Prepared: ()2/04/06 A	nalyzed: 02	2/06/06			
Chloride	224	5.00	mg/L		206			8.37	20	
Sulfate	72.9	5.00	11		66.5			9.18	20	•
Batch EB60901 - General Preparation (WetChem)	····						<u>.</u>		
Blank (EB60901-BLK1)				Prepared &	: Analyzed:	02/08/06				
Total Alkalinity	ND	2.00	mg/L							

Project: EME-Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 02/09/06 16:15

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

		Reporting		Spike	Source		%REC	· -	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB60901 - General Preparatio	n (WetChem)									
LCS (EB60901-BS1)				Prepared &	: Analyzed:	02/08/06				
Bicarbonate Alkalinity	210	2.00	mg/L	200		105	85-115			
Duplicate (EB60901-DUP1)	Sour	rce: 6B01010-	01	Prepared &	: Analyzed:	02/08/06				
Total Alkalinity	192	2.00	mg/L	3.2	191			0.522	20	
Reference (EB60901-SRM1)				Prepared &	: Analyzed:	02/08/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 02/09/06 16:15

Total Metals by EPA / Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	resur	- Limit	Cinis	Level	Result	7MCC	Limits		Clint	110103
Batch EB60903 - 6010B/No Digestion										
Blank (EB60903-BLK1)				Prepared: (02/08/06 A	nalyzed: 02	2/09/06			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500								
Sodium	ND	0.0100	"							
Calibration Check (EB60903-CCV1)				Prepared: 0	02/08/06 A	nalyzed: 02	2/09/06			
Calcium	2.06		mg/L	2.00		103	85-115			
Magnesium	2.05			2.00		102	85-115			
Potassium	1.92		41	2.00		96.0	85-115	•		
Sodium	1.90		"	2.00		95.0	85-115			
Duplicate (EB60903-DUP1)	Sou	rce: 6B01010-	01	Prepared: (02/08/06 A	nalyzed: 02	2/09/06			
Calcium	. 62.1	0.0100	mg/L		61.2			1.46	20	
Magnesium	43.5	0.0100			44.8			2.94	20	
Potassium	10.3	0.500	н		10.4			0.966	20	
Sodium	161	0.500	**		157			2.52	20	

Project: EME Jct. A-20
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/09/06 16:15

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 Not Reported NR dry Sample results reported on a dry weight basis Relative Percent Difference RPD Laboratory Control Spike LCS Matrix Spike MS Dup Duplicate

	Kaland KJul	
Report Approved By:	Kacam C 100	Date:

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Peggy Allen, QA Officer

2/9/2006

Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: EME Jct. A-20 Fax No: (505) 397-1471 kpriceswd@valornet.com City/State/Zip: Hobbs, New Mexico 88240 Company Name RICE Operating Company Project Manager: Kristin Farris Pope Telephone No: (505) 393-9174

Standard TAT (Pre-Schedule) otal Dissolved Solids I.O.R.M. Custody Seals: Containers Femperature Upon Receipt SCI Sample Containers Intact? Lea County BTEX 80218/6030 Labels on container? Versie: Ve VB Ba Cd Ct Pb Hg Se 뎐 TOTAL SAR LESP LCEC Project Loc: Project #: ₩ Od Jujous (Cl. 204, C03, HC03) Cations (Ca, Mg, Na, K) 9001 9001 MS108 1'815 Hd. Other (specify): PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com lioŝ agbula Water Other (Specify) None (1) 1 Liter HDPE 'OS^zH HOPN HCI (2) 40 ml glase vials нио³ 02 No. of Containers ო 10:15 Time Sampled 2/1/2006 Date Sampled Sampler Signature: Rozanne Johnson (505) 631-9318 Email: rozanne@valornet.com Company Address: 122 W. Taylor Street FIELD CODE Monitor Well #1 Special Instructions: LAB # (lab use only)

Laboratory Comments

Time

Received by:

Time

Date

6:02

2/2/06

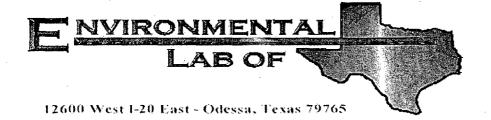
elinguished by

6103

2/2/00 90.00

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

Dient: <u>Rile Op.</u>					
Date/Time: 2/2/06 9:00					
Order#: 6802003					
Initials: CR				,	
Samula Danaida	Ot [4]	.			
Sample Receipt					
Temperature of container/cooler?	Yes	No 1	1,0	C	
Shipping container/cooler in good condition?	Yes	No 1			•
Custody Seals intact on shipping container/cooler?	Y65	No 1	Nict presen		
Custody Seals intact on sample bottles? Chain of custody present?	Yes I	No 1	Not presen	<u>t </u>	
	Yes	No I			
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)	100	No			
Container labels legible and intact?	√€s	No I	- <u></u>		
Sample Matrix and properties same as on chain of custody?	YES	No		<u> </u>	
Samples in procer container/bottle?	\ <u> </u>	No I			
Samples procerly preserved?	Yes	No I			
Sample bottles intact?	YES	No			
Preservations documented on Chain of Custody?	Yes	No I	· · · · · · · · · · · · · · · · · · ·		
Containers documented on Chain of Custody?	Yæs	No	·		
Sufficient sample amount for indicated test? All samples received within sufficient hold time?	(E)	No I		!	
VOC samples feesived within sumcent hold time?	XEB	No No	Not Applicat		
Other observations:	1 231	1,01	, inc. / incl.	.10	
Other observations.					
•					,
Variance Docur	nentatio	n:			
Contact Person: Date/Time:			Contacted b	oy:	
Regarding:					
		··			
					
Corrective Action Taken:					
Consulve Action Taken.	•				
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Analytical Report

Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: EME Jct. A-20
Project Number: None Given
Location: Lea County

Lab Order Number: 6C09014

Report Date: 03/17/06

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #2	6C09014-01	Water	03/08/06 10:45	03/09/06 13:30
Monitor Well #3	6C09014-02	Water	03/08/06 11:20	03/09/06 13:30

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C09014-01) Water									
Benzene	ND	0.00100	mg/L	1	EC61303	03/13/06	03/13/06	EPA 8021B	
Toluene	ND	0.00100	"	v	*	#	n	*	
Ethylbenzene	ND	0.00100	**	ti		*		h	
Xylene (p/m)	ND	0.00100		**	н	и .	"	11	
Xylene (o)	ND	0.00100	"		*	н	*	H	
Surrogate: a,a,a-Trifluorotoluene		92.5 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.8 %	80-	120	"	"	"		
Monitor Well #3 (6C09014-02) Water								_	
Benzene	ND	0.00100	mg/L	. 1	EC61303	03/13/06	03/13/06	EPA 8021B	
Toluene	ND	0.00100	"	*	**	"	**	*	
Ethylbenzene	ND	0.00100	17	"	"	n	* .		
Xylene (p/m)	ND	0.00100	11	н	**	11	н	1+	
Xylene (o)	ND	0.00100	"	**		•	ч	11	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-	120	"	"	, ,	"	
Surrogate: 4-Bromofluorobenzene		85.8 %	80-	120	"	<u>"</u>	"	n	

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

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

Analyte .	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C09014-01) Water								<u> </u>	
Total Alkalinity	374	2.00	mg/L	1	EC61612	03/15/06	03/15/06	EPA 310.1M	
Chloride	2030	25.0	**	50	EC61306	03/10/06	03/13/06	EPA 300.0	
Total Dissolved Solids	4610	5.00	"	1	EC61601	03/13/06	03/14/06	EPA 160.1	
Sulfate	491	25.0	"	50	EC61306	03/10/06	03/13/06	EPA 300.0	
Monitor Well #3 (6C09014-02) Water									
Total Alkalinity	356	2.00	mg/L	1	EC61612	03/15/06	03/15/06	EPA 310.1M	
Chloride	2200	25.0		50	EC61306	03/10/06	03/13/06	EPA 300.0	
Total Dissolved Solids	4860	5.00	, н	1	EC61601	03/13/06	03/14/06	EPA 160.1	
Sulfate	486	25.0	*	50	EC61306	03/10/06	03/13/06	EPA 300.0	•

Project: EME Jct. A-20

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

Total Metals by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C09014-01) Water									
Calcium	216	0.500	mg/L	50	EC61608	03/16/06	03/16/06	EPA 6010B	
Magnesium	185	0.0500	•	"	11	*	,	*	
Potassium	32.1	0.500	4	10	#	*	**	*	1
Sodium	1220	5.00	•	500	•	*	•	*	
Monitor Well #3 (6C09014-02) Water						·			
Calcium	278	0.500	mg/L	50	EC61608	03/16/06	03/16/06	EPA 6010B	
Magnesium	223	0.0500	*	"	*	**		•	
Potassium	25.7	0.500	"	10	*		н	н	
Sodium	1080	5.00	**	500	ч	*	"	n	

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Nota-
	resuit	Limit	Onits	Level	Result	70KEC	Limits	KPD	Limit	Notes
Batch EC61303 - EPA 5030C (GC)	·	 		****			· · · · · · · · · · · · · · · · · · ·			
Blank (EC61303-BLK1)				Prepared &	Analyzed	03/13/06				
Benzene	ND	0.00100	mg/L						4-00-	
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	. "							
Xylene (p/m)	ND	0.00100	. "	•						
Xylene (o)	ND.	0.00100	. #							
Surrogate: a,a,a-Trifluorotoluene	34.4		ug/l	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.9	,	"	40.0		92.2	80-120			
LCS (EC61303-BS1)				Prepared &	Analyzed:	03/13/06				
Benzene	0.0447	0.00100	mg/L	0.0500		89.4	80-120			
Toluene	0.0507	0.00100	"	0.0500		101	80-120			
Ethylbenzene	0.0571	0.00100	۳.	0.0500		114	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			•
Xylene (o)	0.0575	0.00100	e	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.2		ug/I	40.0		103	80-120		*****	
Surrogate: 4-Bromofluorobenzene	32.8		"	40.0		82.0	80-120			
Calibration Check (EC61303-CCV1)				Prepared &	Analyzed:	03/13/06				
Benzene	46.0		ug/l	50.0		92.0	80-120			*****
Toluene	51.6		"	50.0		103	80-120			
Ethylbenzene	57,7	•	**	50.0		115	80-120			
Xylene (p/m)	118		**	100		118	80-120			
Xylene (o)	59.1		и	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.0		"	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	80-120			
Matrix Spike (EC61303-MS1)	Sou	rce: 6C08003-	-05	Prepared &	Analyzed:	03/13/06				
Benzene	0.0461	0.00100	mg/L	0.0500	ND	92.2	80-120			
Toluene	0.0515	0.00100		0.0500	ND	103	80-120			
Ethylbenzene	0.0570	0.00100	**	0.0500	ND	114	80-120			
Xylene (p/m)	0.117	0.00100	**	0.100	ND	117	80-120			
Xylene (o)	0.0579	0.00100	79	0.0500	ND	116	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/l	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

Organics by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC61303 - EPA 5030C (GC)										
Matrix Spike Dup (EC61303-MSD1)	Sou	rce: 6C08003-	05	Prepared &	Analyzed:	03/13/06				
Benzene	0.0472	0.00100	mg/L	0.0500	ND	94.4	80-120	2.36	20	
Toluene	0.0527	0.00100	. "	0.0500	ND	105	80-120	1.92	20	
Ethylbenzene	0.0584	0.00100	"	0.0500	ND	117	80-120	2.60	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	2.53	20	
Xylene (o)	0.0597	0.00100	11	0.0500	ND ·	119	80-120	2.55	20	
Surrogate: a,a,a-Trifluorotoluene	40.8		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0		101	80-120			

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC61306 - General Preparation (WetChem)									
Blank (EC61306-BLK1)				Prepared: (03/10/06 A	nalyzed: 03	3/13/06			,
Chloride	ND	0.500	mg/L				,	***		
Sulfate	ND	0.500								
LCS (EC61306-BS1)				Prepared: (03/10/06 A	nalyzed: 03	3/13/06			
Chloride	9.48		mg/L	10.0		94.8	80-120			
Sulfate	9.55		н	10.0		95.5	80-120			
Calibration Check (EC61306-CCV1)				Prepared: 0)3/10/06 A	nalyzęd: 03	/13/06			
Chloride	9.64		mg/L	10.0		96.4	80-120			
Sulfate	9.79		н	10.0		97.9	80-120			
Duplicate (EC61306-DUP1)	Sour	rce: 6C07011-	01	Prepared: (03/10/06 A	nalyzed: 03	3/13/06			
Chloride	11500	250	mg/L		11300			1.75	20	
Sulfate	753	250	н		812			7.54	20	
Batch EC61601 - General Preparation (V	VetChem)									
Blank (EC61601-BLK1)				Prepared: (03/13/06 A	nalyzed: 03	3/14/06			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EC61601-DUP1)	Sour	rce: 6C09013-	01	Prepared: (3/13/06 A	nalyzed: 03	3/14/06			
Total Dissolved Solids	5770	5.00	mg/L		5780			.0.173	5	
Batch EC61612 - General Preparation (V	VetChem)			•						
Blank (EC61612-BLK1)				Prepared &	: Analyzed:	03/15/06				
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Project: EME Jct. A-20

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

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

				0.3	-				nnn	
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC61612 - General Preparation	on (WetChem)				·					
LCS (EC61612-BS1)				Prepared &	Analyzed:	03/15/06				•
Bicarbonate Alkalinity	220	2.00	mg/L	200		110	85-115			-
Duplicate (EC61612-DUP1)	Sour	ce: 6C09013-	01	Prepared &	: Analyzed:	03/15/06				
Total Alkalinity	377	2.00	mg/L		376			0.266	20	
Reference (EC61612-SRM1)	•	•		Prepared &	Analyzed:	03/15/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/17/06 09:35

Total Metals by EPA / Standard Methods - Quality Control

										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC61608 - 6010B/No Digestion										
Blank (EC61608-BLK1)				Prepared &	Analyzed:	03/16/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	**							
Potassium	ND	0.0500	n							
Sodium	ND	0.0100	n							
Calibration Check (EC61608-CCV1)				Prepared &	Analyzed:	03/16/06				
Calcium	2.13		mg/L	2.00		106	85-115			
Magnesium	2.12		"	2.00		106	85-115			
Potassium	1.86		n	2.00		93.0	85-115			
Sodium	1.80		n	2.00		90.0	85-115			
Duplicate (EC61608-DUP1)	Sou	rce: 6C08002-	-01	Prepared &	Analyzed:	03/16/06				
Calcium	230	0.500	mg/L		226			1.75	20	
Magnesium	140	0.0500	•		144			2.82	20	
Potassium	32.3	0.500	н		32.0			0.933	20	
Sodium	974	2.00	**		965			0.928	20	

Rice Operating Co.Project:EME Jct. A-20Fax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope03/17/06 09:35

Notes and Definitions

DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND 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

	Kaland KJul		
Report Approved By:	Kacan C 10	Date:	3/17/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800 Fax: 432-563-1713

Project Loc: Lea County Project Name: EME Jct. A-20 TOLP ₩ ₩ Project #: Fax No: (505) 397-1471 kpriceswd@valornet.com Sampler Signature: Rozanne Johnson (505) 631-9310 city/state/Zip: Hobbs, New Mexico 88240 Company Name RICE Operating Company Email: rozanne@valornet.com Company Address: 122 W. Taylor Street Project Manager: Kristin Farris Pope Telephone No: (505) 393-9174

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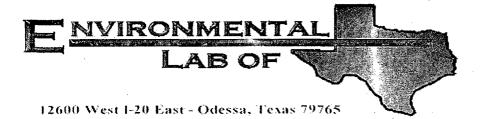
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3-9-201

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

	4		1	
client: Litt DD,				
Date/Time: 3/9/06 15:30		٠.		
Descrime.				
Order #:	·		•	
Initials:				
Sample Receipt	Chackli	e.t		
Temperature of container/cooler?	Yes	No I	0.5 01	
Shipping container/cooler in good condition?	Yes	No	<u> </u>	
Custody Seals intact on shipping container/cooler?	YES	No	Not present	
Custody Seals intact on sample bottles?	Yas I	No	Not present	
Chain of custody present?	Yes	No		
Sample Instructions complete on Chain of Custody?	Y(€35)	No		
Chain of Custody signed when relinquished and received?	YÆS)	No	:	
Chain of custody agrees with sample label(s)	Yaş	No		
Container lacels 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?	Ves 1	No	1	
Preservations documented on Chain of Custody?	Yes I	No	1	
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 1	
Other observations:				
Variance Docu	montatio	nn:		•
Contact Person: - Date/Time:	meman	201.	Contacted by:	
			Contacted by.	
Regarding:				
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Corrective Action Taken:	,	·		
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Analytical Report

Prepared for:

Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: EME Jct. A-20
Project Number: None Given
Location: Lea County

Lab Order Number: 6F15002

Report Date: 06/26/06

Rice Operating Co. 122 W. Taylor Project: EME Jct. A-20

Fax: (505) 397-1471

Hobbs NM, 88240

Project Number: None Given
Project Manager: Kristin Farris-Pope

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #4	6F15002-01	Water	06/13/06 07:45	06/15/06 07:50
Monitor Well #5	6F15002-02	Water	06/13/06 08:45	06/15/06 07:50

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Project Manager: Kristin Farris-Pope

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Organics by GC Environmental Lab of Texas

A 1. 4-	D la	Reporting	**						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #4 (6F15002-01) Water							,		
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	"	**	IF.	н	*	н .	
Ethylbenzene	ND	0.00100	•	4	**	n	•	#	
Xylene (p/m)	ND	0.00100	H	**	H.			"	
Xylene (o)	ND	0.00100		"	. "	,,	,,	*	
Surrogate: a,a,a-Trifluorotoluene		95.8 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	80-12	20	"	"	rr .	и	
Monitor Well #5 (6F15002-02) Water									
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	•
Toluene	ND	0.00100	. "	,,	*	**	*	п	
Ethylbenzene	ND	0.00100		. "	"	Ħ	0	"	
Xylene (p/m)	ND	0.00100	**	н	#	**	er er	Ħ	•
Xylene (o)	ND	0.00100		н	*	**	"	п	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-12	20	. "	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	80-12	20	"	"	"	"	

Project: EME Jct. A-20

Project Number: None Given
Project Manager: Kristin Farris-Pope

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General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	√Analyzed	Method	Notes
Monitor Well #4 (6F15002-01) Water									
Total Alkalinity	340	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	3840	50.0	*	100	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	6790	5.00	"	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	1060	50.0	•	100	EF61712	06/17/06	06/17/06	EPA 300,0	
Monitor Well #5 (6F15002-02) Water									
Total Alkalinity	456	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	2450	25.0	"	50	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	4960	5.00	* .	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	519	25.0	"	50	EF61712	06/17/06	06/17/06	EPA 300.0	

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Total Metals by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #4 (6F15002-01) Water								***	
Calcium	348	0.500	mg/L	50	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	283	0.0500	**	11	*	n	п	**	
Potassium	34.7	0.500	••	10	"		н		
Sodium	1540	5.00	11	500	11	н	#		
Monitor Well #5 (6F15002-02) Water									
Calcium	209	0.500	mg/L	50	EF61505	06/15/06	06/15/06	EPA 6010B	,
Magnesium	180	0.0500	**	H	"	*	*	**	
Potassium	32.4	0.500	11	10	и	n	*	•	
Sodium	1100	2.00		200	i	N	"	•	

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Organics by GC - Quality Control Environmental Lab of Texas

Analyse	Daniele	Reporting Limit	Limite	Spike	Source	0/DEC	%REC	מחם	RPD	N 1.4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF61921 - EPA 5030C (GC)										
Blank (EF61921-BLK1)				Prepared: 0	6/19/06 A	nalyzed: 06	6/20/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	**							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/l	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		"	40.0	*	96.0	80-120			
LCS (EF61921-BS1)				Prepared: 0	6/19/06 A	nalyzed: 06	5/20/06			
Benzene	0.0529	0.00100	mg/L	0.0500		106	80-120			
Toluene	0.0579	0.00100	н	0.0500		116	80-120			
Ethylbenzene	0.0565	0.00100		0.0500		113	80-120			
Xylene (p/m)	0.119	0.00100		0.100		119	80-120			
Xylene (o)	0.0589	0.00100	н	0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.6		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	40.7	·	"	40.0		102	80-120			
Calibration Check (EF61921-CCV1)				Prepared: 0	6/19/06 A	nalyzed: 06	5/20/06			
Benzene	58.0	· · · · · · · · · · · · · · · · · · ·	ug/l	50.0		116	80-120			
Toluene	59.2			50.0		118	80-120			
Ethylbenzene	57.5		*	50.0		115	80-120			
Kylene (p/m)	119		**	100		119	80-120			
Kylene (o)	59.0		н	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.1		"	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		. "	40.0		96.0	80-120			
Matrix Spike (EF61921-MS1)	Soui	ce: 6F15001-	01	Prepared: 0	6/19/06 A	nalyzed: 06	5/20/06			
Benzene	0.0488	0.00100	mg/L	0.0500	ND	97.6	80-120			
Гoluene	0.0539	00100.0	"	0.0500	ND	108	80-120			
Ethylbenzene	0.0501	0.00100	**	0.0500	ND	100	80-120			*
Xylene (p/m)	0.115	0.00100	n	0.100	ND	115	80-120			
Kylene (o)	0.0576	0.00100	II.	0.0500	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.6		ug/l	40.0		94.0	80-120			1.10.74
urrogate: 4-Bromofluorobenzene	41.7		"	40.0		104	80-120			

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Organics by GC - Quality Control

Analyte ·	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF61921 - EPA 5030C (GC)										
Matrix Spike Dup (EF61921-MSD1)	Sour	ce: 6F15001-	01	Prepared: 0)6/19/06 A	nalyzed: 06	/20/06			
Benzene	0.0484	0.00100	mg/L	0.0500	ND	96.8	80-120	0.823	20	
Toluene	0.0469	0.00100	*	0.0500	ND	93.8	80-120	14.1	20	
Ethylbenzene	0.0451	0.00100	**	0.0500	ND .	90.2	80-120	10.3	20	
Xylene (p/m)	0.0979	0.00100		0.100	ND	97.9	80-120	16.1	20	
Xylene (o)	0.0497	0.00100	11	0.0500	ND	99.4	80-120	14.6	20	
Surrogate: a,a,a-Trifluorotoluene	33.7 ·		ug/l	40.0		84.2	80-120			
Surrogate: 4-Bromofluorobenzene	39.1		"	40.0		97.8	80-120			

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF61712 - General Preparation (Wo	etChem)									
Blank (EF61712-BLK1)				Prepared &	: Analyzed:	06/17/06				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EF61712-BS1)				Prepared &	: Analyzed:	06/17/06				
Chloride	10.0		mg/L	10.0		100	80-120	-		
Sulfate	8.16		q	10.0		81.6	80-120			
Calibration Check (EF61712-CCV1)				Prepared &	Analyzed:	06/17/06				
Chloride	10.9		mg/L	10.0		109	80-120			
Sulfate	10.5		**	10.0		105	80-120			
Duplicate (EF61712-DUP1)	Source	e: 6F14013-	01	Prepared &	Analyzed:	06/17/06				
Chloride	47.9	5.00	mg/L		48.8			1.86	20	
Sulfate	69.2	5.00	**		69.8			0.863	20	
Duplicate (EF61712-DUP2)	Source	e: 6F15003-	05	Prepared &	Analyzed:	06/18/06				
Chloride	198	5.00	mg/L		197			0.506	20	
Sulfate	154	5.00			152			1.31	20	
Matrix Spike (EF61712-MS1)	Source	e: 6F14013-	01	Prepared &	Analyzed:	06/17/06				
Chloride	157	5.00	mg/L	100	48.8	108	80-120			
Gulfate	154	5.00		100	69,8	84.2	75-125			
Aatrix Spike (EF61712-MS2)	Source	e: 6F15003-	05	Prepared &	Analyzed:	06/18/06				
ulfate	249	5.00	mg/L	100	152	97.0	75-125			
Chloride	301	5.00	18	100	197	104	80-120			

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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 EF61918 - Filtration Preparation				• .						_
Blank (EF61918-BLK1)				Prepared: 0	06/15/06 A	nalyzed: 06	5/16/06			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EF61918-DUP1)	Sou	rce: 6F15001-	01	Prepared: 0	06/15/06 A	nalyzed: 06	/16/06			
Fotal Dissolved Solids	7770	5.00	mg/L		7820			0.641	5	
Batch EF62316 - General Preparation (Wet	Chem)									
Blank (EF62316-BLK1)		-		Prepared &	Analyzed:	06/22/06				
Total Alkalinity	ND	2.00	mg/L						,	
Carbonate Alkalinity	ND	0.100	"							
Bicarbonate Alkalinity	ND	2.00								
Hydroxide Alkalinity	ND	0.100	"							
LCS (EF62316-BS1)				Prepared &	Analyzed:	06/22/06				
Fotal Alkalinity	248	2.00	mg/L	250		99.2	85-115			
Duplicate (EF62316-DUP1)	Sou	rce: 6F15001-	01	Prepared &	Analyzed:	06/22/06				
Total Alkalinity	380	2.00	mg/L		386			1.57	20	
Carbonate Alkalinity	0.00	0.100	**		0.00				20	
Bicarbonate Alkalinity	380	2.00	*		386			1.57	20	
lydroxide Alkalinity	0.00	0.100			0.00				20	
Duplicate (EF62316-DUP2)	Sou	rce: 6F22003-	01	Prepared &	Analyzed:	06/22/06				
otal Alkalinity	142	2.00	mg/L		144	,		1.40	20	
Carbonate Alkalinity	. 0.00	0.100	**		0.00				20	
Bicarbonate Alkalinity	142	2.00	"		144			1.40	20	
lydroxide Alkalinity	0.00	0.100	**		0.00				20	

Rice Operating Co.

122 W. Taylor

Hobbs NM, 88240

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EF62316 - General Preparation (WetChem)

Reference (EF62316-SRM1)				Prepared & An	alyzed: 06/22/06		
Total Alkalinity	78.0	2.00	mg/L	82.0	95.1	85-115	
Bicarbonate Alkalinity	78.0	2.00	**	82.0	95.1	85-115	
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122 W. Taylor

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Total Metals by EPA / Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF61505 - 6010B/No Digestion										
Blank (EF61505-BLK1)				Prepared &	: Analyzed:	: 06/15/06				
Calcium	ND	0.0100	mg/L		., .			,		
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	,,				,			
Sodium	ND	0.0100	и							
Calibration Check (EF61505-CCV1)				Prepared &	: Analyzed:	06/15/06				
Calçium	2.01		mg/L	2.00		100	85-115			
Magnesium	2.12			2.00		106	85-115			
Potassium	1.76			2.00		88.0	85-115			
Sodium .	1.74		"	2.00		87.0	85-115	•		
Duplicate (EF61505-DUP1)	Sou	rce: 6F15001-	01	Prepared &	Analyzed:	06/15/06				
Calcium	316	0.500	mg/L		320			1.26	20	
Magnesium	231	0.0500	"		229			0.870	20	
Potassium	38.4	0.500	"		38.5			0.260	20	
Sodium	1740	5.00	н		1760			1.14	20	

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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

Duplicate

Dup

Report Approved By:	Raland	KJul
Report ripproved by		

Date:

6/26/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

12600 West f-20 East Odessa, Texas 79765

Phone: 432-563-1800 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Company Name RIC Company Address: 122 City/State/Zip: Hot Telephone No: (50/ Sampler Signature: Roz Sampler Signature: Roz Email: 702/ Monitor We Cab # (jab use only) Ralinguished by: Ralinguished by: Refinguished by: Refinguished by: Refinguished by: Refinguished by: Refinguished by: Refinguished by:	1	.	- 1		.				П			-		-					\dashv	\dashv	ě	\vdash	4		
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

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1/1/1/1/100				
=/Time: 6/5/00 7:50				
1. E16 NO				
er#: <u>QF15002</u>				
	•			
als:				
Sample Recei	nt Checki	ict		
perature of container/cooler?	Yes	No	L (5 C)	
ping container/cooler in good condition?	Yes	No	(1.3 0)	
ody Seals intact on shipping container/cooler?	(Tes)	No	Not present	
ody Seals intact on sample bottles?	es	No	Not present	
in of custody present?	Yes	No	p.o.c.it	
iple Instructions complete on Chain of Custody?	763	No		
in of Custody signed when relinquished and received?	¥ 2 3)	No		
in of custody agrees with sample label(s)	(PS	No		
tainer labels legible and intact?	(Pes)	No		
tole Matrix and properties same as on chain of custody?	700	No		
ngles in proper container/bottle?	725	No		,
iples properly preserved?	766	No		
aple bottles intact?	YES	l No		· 1
servations documented on Chain of Custody?	YES	No		i I •
tainers documented on Chain of Custody?	(Tas	l No		I
icient sample amount for indicated test?	(Cas	No		
amples received within sufficient hold time?	िट्ड	No		
Disamples have zero headspace?	(E)	No	Not Apolicable	·
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