AP - 47

ANNUAL MONITORING REPORT

YEAR(S): 2005



Highlander Environmental Coxprin 12-07

Midland, Texas

CERTIFIED MAIL
RETURN RECEIPT NO. 7004 1160 0005 3780 4852

March 17, 2006

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

Re: 2005 Annual Summary Report, Rice Operating Company, Blinebry Drinkard (BD) SWD System Junction Box F-17, Unit F, Section 17, T-21-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0426-14 (AP-47)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2005 Annual Summary Report for the Rice Operating Company (ROC), Blinebry Drinkard (BD) SWD System junction box F-17.

Background

As part of the ROC Junction Box Upgrade Workplan, starting on September 17, 2002, the junction box was removed and the Site was delineated vertically and horizontally with a backhoe. The Site was excavated to the approximate dimensions of 20 feet x 20 feet x 12 feet. Chloride impact was consistent vertically. No TPH impact was indicated.

During the excavation, an older junction box was discovered approximately 10 feet south of the existing location. On November 18, 2002, a soil boring was placed near this old box location and advanced to a depth of 75 feet. Chloride concentrations declined with depth, however, chloride impact to groundwater was observed.

Also on November 18, 2002, a 2 inch diameter monitor well was installed to a total depth of 85 feet. On December 13, 2002, ROC notified the NMOCD of groundwater impact, and on November 7, 2003 ROC submitted a Junction Box Disclosure Form to the NMOCD. Groundwater has been sampled and analyzed on a quarterly basis since June 2003. The quarterly sampling has confirmed that there is no hydrocarbon impact to groundwater at this

Site. The excavation was backfilled and the junction moved 45 feet south of the original site. The Site location is shown on Figure 1.

Stage I Abatement Plan

On March 17, 2005 an Investigation and Characterization Plan (ICP) was submitted to the NMOCD. On May 5, 2005, Daniel Sanchez with the NMOCD requested a Rule 19, Stage I Abatement Plan for this site. On July 12, 2005 a Stage I Abatement Plan was submitted to the NMOCD. The plan was certified "Administratively Complete" on November 18, 2005. The Public Notice requirement of the Stage I Abatement Plan was satisfied in December, 2005. Prior to submission of this 2005 Annual Report, the Stage I Abatement Plan approval was received, dated February 23, 2006.

Monitor Well Sampling

The site monitor well (MW-1) was sampled on January 26, April 28, June 21, September 16 and October 17, 2005. Prior to sampling, the well was gauged for static water level. The monitor well cap was opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

The well was then purged using a portable submersible pump. Approximately three casing volumes of water were purged from the well prior to sampling. The pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are included in the Tables Section of this report.

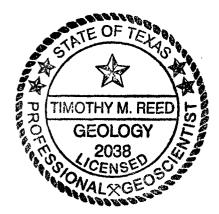
The well was also inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level. Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. The samples were delivered under proper chain-of-custody control to Environmental Labs of Texas, Inc., Odessa, Texas. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix A.

Monitor Well Sample Results

In 2005, there were no BTEX constituents detected at or above reporting limits for MW-1. Chloride and total dissolved solid (TDS) concentrations from monitor well MW-1 exceeded the Water Quality Control Commission (WQCC) standards of 250 mg/L for chloride and 1000 mg/L for TDS in all sampling events. Cumulative analytical data is summarized in the Table Section of this report.

Conclusions and Recommendations

- 1. In 2005, there were no BTEX constituents detected at or above reporting limits for MW-1.
- 2. Chloride and total dissolved solid (TDS) concentrations from monitor well MW-1 exceeded the Water Quality Control Commission (WQCC) standards of 250 mg/L for chloride and 1000 mg/L for TDS in all sampling events.
- 3. Quarterly monitoring at this site will continue and an annual report will be prepared and submitted to the NMOCD in the first quarter of 2007.
- 4. Prior to submission of this 2005 Annual Report, the Stage I Abatement Plan approval was received, dated February 23, 2006. The Stage I Abatement Plan will be implemented as approved. Once completed, a Stage II Abatement Plan will be prepared and submitted to the NMOCD.

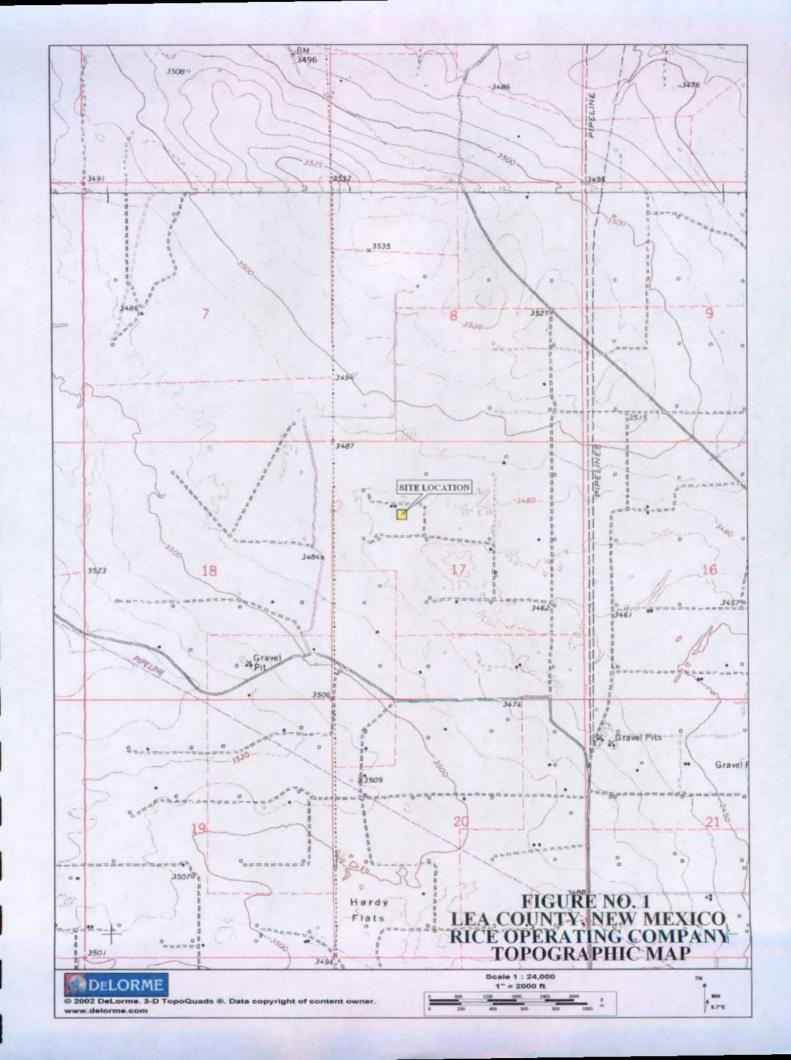


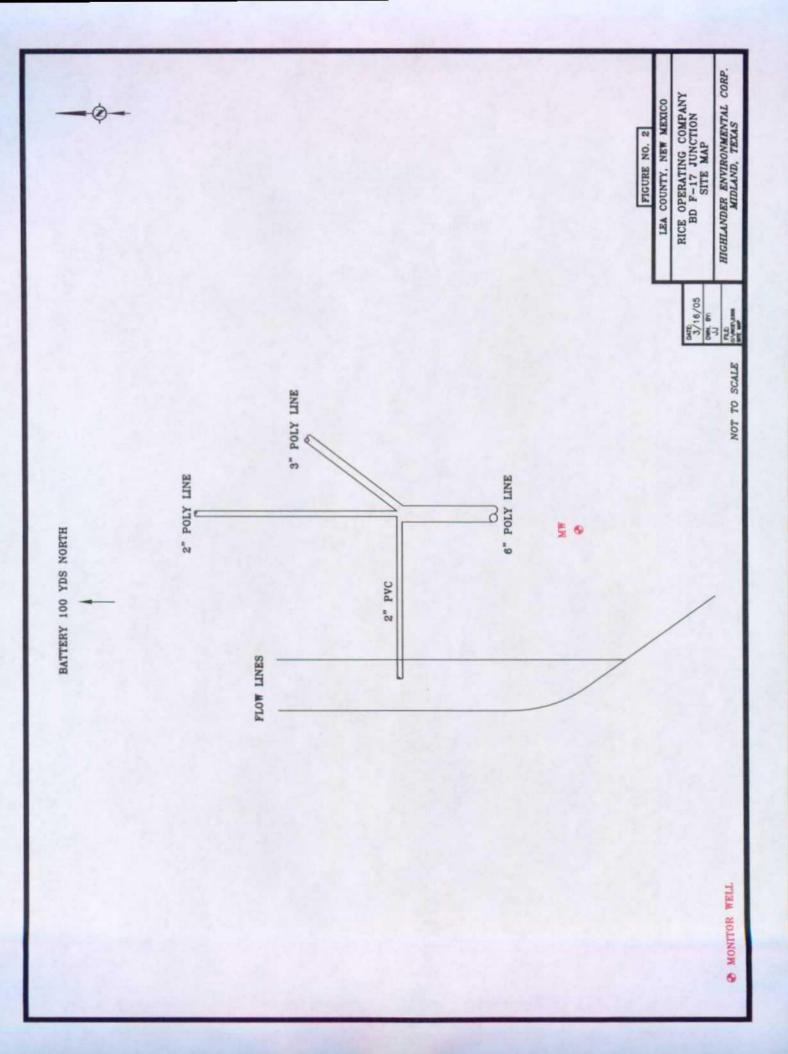
Respectfully Submitted, HIGHLANDER ENVIRONMENTAL CORP.

Timothy M. Reed, P.G.

Vice President

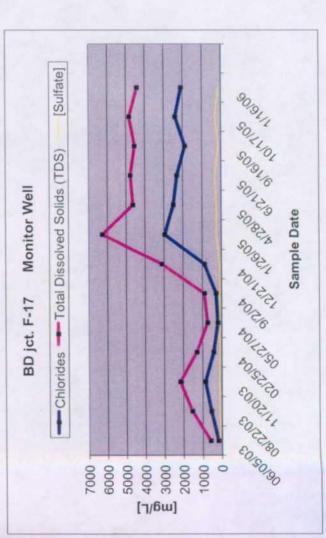
cc: ROC





	COMMENTS						It. brown; cloudy		re-sample					Silt to Clear no odor	
	SULFATE	9.7.6	112	132	8.96	87.8	9.06	96.2	257	259	339	147	319	154	
	TOTAL	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
mg/L	BENZENE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
All concentrations are in mg/L	TOLUENE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
All concentra	BENZENE	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	TDS	589	1540	2160	1300	726	968	3120	6280	4640	4770	4540	4830	4410	
	-to	177	549	851	415	195	284	988	2970	2510	2310	1890	2400	2090	
	SAMPLE	06/05/03	08/22/03	11/20/03	02/25/04	05/27/04	9/2/04	12/21/04	1/26/05	4/28/05	6/21/05	9/16/05	10/17/05	1/16/06	00000
1)	VOLUME SAMPL PURGED DATE		4.50	4.30	4.20	6.40	4.40	4.50	4.26	5.00	10.00	12.0	5.0	0 8	200
(gal)	VOLUME	1.524	1.500	1.456	1.400	2.130	1.46	1.42	1.42	1.44	1.43	1.4	1.4	1.4	101
	TOTAL	85.20	85.12	84.85	84.48	85.12	84.60	84.00	84.07	84.2	84.15	84.2	84.2	84.7	7:10
(ft)	DEPTH TO WATER *	75.67	75.73	75.75	75.73	71.75	75.48	75.10	75.18	75.21	75.2	75.21	75.2	25.15	02.10
	# MM	1	1	1	1	1	1	-	-	1	-	1		-	1

* Depth to water is measured from top of casing Casing is 3.104 ft



Analytical Report

2/02/2005



Analytical Report

Prepared for:

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

Project: Jct. F-17 MW-1
Project Number: 505
Location: BD

Lab Order Number: 5A28003

Report Date: 02/02/05

Project: Jct. F-17 MW-1

Project Number: 505 Project Manager: Kristin Pope Fax: (505) 397-1471

Reported: 02/02/05 13:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5A28003-01	Water	01/26/05 12:27	01/28/05 11:14

Project: Jct. F-17 MW-1

Project Number: 505

Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported: 02/02/05 13:10

Organics by GC

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5A28003-01) Water									
Benzene	ND	0.00100	mg/L	1	EB50102	01/28/05	01/28/05	EPA 8021B	
Toluene	ND	0.00100	*		**	и	•	"	
Ethylbenzene	ND	0.00100	n						
Xylene (p/m)	ND	0.00100	н	•	**	и	ь		
Xylene (o)	ND	0.00100	н	*	,,	n	п	**	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-12	20	,,	· · · · · · · · · · · · · · · · · · ·			•
Surrogate: 4-Bromofluorobenzene		83.5 %	80-12	20	,,	"	"	"	

Project: Jct. F-17 MW-1

Project Number: 505
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported: 02/02/05 13:10

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5A28003-01) Water									
Total Alkalinity	186	2.00	mg/L	1	EA53101	01/31/05	01/31/05	EPA 310.2M	
Chloride	2970	50.0	•	100	EB50115	01/28/05	01/28/05	EPA 300.0	
Total Dissolved Solids	6280	5.00	•	1	EB50103	01/31/05	02/01/05	EPA 160.1	
Sulfate	257	50.0		100	EB50115	01/28/05	01/28/05	EPA 300.0	

Project: Jct. F-17 MW-1

Project Number: 505 Project Manager: Kristin Pope Fax: (505) 397-1471

Reported: 02/02/05 13:10

Total Metals by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5A28003-01) Water									
Calcium	614	1.00	mg/L	100	EB50114	02/01/05	02/01/05	EPA 6010B	
Magnesium	331	0.100	"	,,		*	n	"	
Potassium	23.9	0.500	*	10		**	n		
Sodium	1120	10.0	,	1000			"	H	

Project: Jct. F-17 MW-1

Project Number: 505 Project Manager: Kristin Pope Fax: (505) 397-1471

Reported: 02/02/05 13:10

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 EB50102 - EPA 5030C (GC)										
Blank (EB50102-BLK1)				Prepared &	Analyzed:	01/28/05	_			
Benzene	МД	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	23.1		ug l	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	17.7		"	20.0		88.5	80-120			
LCS (EB50102-BS1)				Prepared &	k Analyzed:	01/28/05				
Benzene	103		ug/l	100		103	80-120			
Toluene	107		•	100		107	80-120			
Ethylbenzene	99.9		*	100		99.9	80-120			
Xylene (p/m)	208		*	200		104	80-120			
Xylene (o)	102		*	100		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.7			20.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	20.1		"	20.0		100	80-120			
LCS Dup (EB50102-BSD1)				Prepared &	k Analyzed:	01/28/05				
Benzene	101		ug/l	100		101	80-120	1.96	20	
Toluene	103			100		103	80-120	3.81	20	
Ethylbenzene	94.6			100		94.6	80-120	5.45	20	
Xylene (p/m)	191			200		95.5	80-120	8.52	20	
Xylene (o)	98.8		*	100		98.8	80-120	3.19	20	
Surrogate: a,a,a-Trifluorotoluene	23.2			20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	19.0		"	20.0		95.0	80-120			
Calibration Check (EB50102-CCV1)				Prepared: (01/28/05 A	nalyzed: 01	/29/05			
Benzene	100		ug/l	100		100	80-120			
Toluene	101			100		101	80-120			
Ethylbenzene	94.0			100		94.0	80~120			
Xylene (p/m)	194		**	200		97.0	80-120			
Xylene (a)	96.0			100		96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.6			20.0		103	80-120			
Surrogaie: 4-Bromofluorobenzene	19.6		,,	20.0		98.0	80-120			

Project: Jct. F-17 MW-1

Project Number: 505
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported: 02/02/05 13:10

RPD

%REC

Source

Organics by GC - Quality Control

Environmental Lab of Texas

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB50102 - EPA 5030C (GC)										
Matrix Spike (EB50102-MS1)	Sourc	e: 5A27004-	02	Prepared: 0)1/28/05 A	Analyzed: 01	/29/05			
Benzene	99.4		ug/l	100	ND	99.4	80-120	,		**
Toluene	98.5		n	100	ND	98.5	80-120			
Ethylbenzene	93.6		н	100	ND	93.6	80-120			
Xylene (p/m)	190		"	200	ND	95.0	80-120			
Xylene (o)	90.1		"	100	ND	90.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.3			20.0	-	96.5	80-120		,	
Surrogate: 4-Bromofluorobenzene	16.4		"	20.0		82.0	80-120			

Rice Operating Co.

Project: Jct. F-17 MW-1

Fax: (505) 397-1471

122 W. Taylor

Project Number: 505

Reported: 02/02/05 13:10

Hobbs NM, 88240 Project Manager: Kristin Pope

General Chemistry Parameters by EPA / Standard Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA53101 - General Preparation (V	WetChem)									
Blank (EA53101-BLK1)				Prepared &	Analyzed:	01/31/05				
Total Alkalinity	ND	2.00	mg/L							
Calibration Check (EA53101-CCV1)				Prepared &	Analyzed:	01/31/05				
Carbonate Alkalinity	0,0500		mg/L	0.0500		100	80-120			
Duplicate (EA53101-DUP1)	Sour	ce: 5A28003-	01	Prepared &	: Analyzed:	01/31/05				
Total Alkalinity	185	2.00	mg/L		186			0.539	20	
Batch EB50103 - General Preparation (V	WetChem)									
Blank (EB50103-BLK1)				Prepared: ()1/31/05 A	nalyzed: 02	2/01/05			
	ND	5.00	mg/L	Prepared: (01/31/05 A	nalyzed: 02	2/01/05			
Blank (EB50103-BLK1) Total Dissolved Solids Duplicate (EB50103-DUP1)		5.00 ce: 5A28003-	-		01/31/05 A					
Total Dissolved Solids			-					0.639	20	
Total Dissolved Solids Duplicate (EB50103-DUP1)	Sour 6240	ce: 5A28003-	01		01/31/05 A			0.639	20	
Total Dissolved Solids Duplicate (EB50103-DUP1) Total Dissolved Solids	Sour 6240	ce: 5A28003-	01	Prepared: (01/31/05 A	nalyzed: 02		0.639	20	
Total Dissolved Solids Duplicate (EB50103-DUP1) Total Dissolved Solids Batch EB50115 - General Preparation (Sour 6240	ce: 5A28003-	01	Prepared: (01/31/05 A: 6280	nalyzed: 02		0.639	20	
Total Dissolved Solids Duplicate (EB50103-DUP1) Total Dissolved Solids Batch EB50115 - General Preparation (Value) Blank (EB50115-BLK1)	Sour 6240 WetChem)	5.00	01 mg/L	Prepared: (01/31/05 A: 6280	nalyzed: 02		0.639	20	
Total Dissolved Solids Duplicate (EB50103-DUP1) Total Dissolved Solids Batch EB50115 - General Preparation (Value of the Bank (EB50115-BLKI) Chloride	Sour 6240 WetChem)	5.00 5.00	01 mg/L	Prepared: (01/31/05 A: 6280	nalyzed: 02 01/28/05		0.639	20	
Total Dissolved Solids Duplicate (EB50103-DUP1) Total Dissolved Solids Batch EB50115 - General Preparation (Value (BB50115-BLK1) Chloride Sulfate	Sour 6240 WetChem)	5.00 5.00	01 mg/L	Prepared: (6280 6280 2 Analyzed:	nalyzed: 02 01/28/05		0.639	20	

Rice Operating Co. 122 W. Taylor Project: Jct. F-17 MW-1

Fax: (505) 397-1471

Reported: 02/02/05 13:10

122 W. TaylorProject Number:505Hobbs NM, 88240Project Manager:Kristin Pope

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB50115 - General Preparation (V	VetChem)						· · · · ·			
LCS Dup (EB50115-BSD1)				Prepared &	Analyzed:	01/28/05				
Chloride	9.88		mg/L	10.0		98.8	80-120	1.84	20	
Sulfate	10.3			10.0		103	80-120	1.96	20	
Calibration Check (EB50115-CCV1)				Prepared &	k Analyzed:	01/28/05				
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	10.1			10.0		101	80-120			
Duplicate (EB50115-DUP1)	Sou	rce: 5A26007-	-01	Prepared 8	k Analyzed:	01/28/05				
Sulfate	1860	50.0	mg/L		1930			3.69	20	
Chloride	976	50.0	*		1010			3.42	20	

Rice Operating Co.

Project: Jct. F-17 MW-1

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: 505
Project Manager: Kristin Pope

Reported: 02/02/05 13:10

$Total\ Metals\ by\ EPA\ /\ Standard\ Methods\ -\ Quality\ Control$

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB50114 - 6010B/No Digestion										
Blank (EB50114-BLK1)				Prepared &	Analyzed:	02/01/05				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500	**							
Sodium	ND	0.0100								
Calibration Check (EB50114-CCV1)				Prepared &	. Analyzed:	02/01/05				
Calcium	2.14		mg/L	2.00		107	85-115			
Magnesium -	2.19			2.00		110	85-115			
Potassium	2.12		•	2.00		106	85-115			
Sodium	2.17			2.00		108	85-115			
Duplicate (EB50114-DUP1)	Sou	rce: 5A28003-	01	Prepared &	Analyzed:	02/01/05				
Calcium	640	1.00	mg/L		614			4.15	20	
Magnesium	346	0.100	•		331			4.43	20	
Potassium	24.0	0.500	•		23.9			0.418	20	
Sodium	1100	10.0			1120			1.80	20	

Project: Jct. F-17 MW-1

Project Number: 505

Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported: 02/02/05 13:10

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 Khub

2/2/05

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.

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, Inc.

CHAIN OF GUSTOOT RECORD AND ARALYSIS REQUEST Project Name: Jeh. F-LT Po#. 505 Project Lac: BD Project #: Fax No: (505) 397-1471 Company Name RICE Operating Company Project Namager Kristin Facris Pope CHYSTANCIE HOBBS NM. 88240 Phone: 915-563-1800 Fax: 916-563-1713 company Address: 122 W. Taylor Samplet Signature: Mittedil flacette. Telephone No: (505) 393-9174 12806 West 1-20 East Odessa, Texas 79763

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				balqms& atsQ	1.26-05	50.951										sco.not	Received by:		Respubblic
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\	`			FIEL D CODE													<u> </u>	(\$132.)	1.22.1
					/51 MW-1	1 - MW	See a	2524				Series	200	36000		Kristi	-	home	
				William files for the control of the	TU	Þ									Special Instructions:	email to Kristin	Relinquished by:	district the	Reimquistad by

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

Client: Rill Operating (O.				
Date/Time: 1/26/05 114				
Order #: 5A 28005				
Initials:				
Sample Receipt	Checkl	ist		
Temperature of container/cooler?	(Yes	No	OO C	
Shipping container/cooler in good condition?	(YES)		<u> </u>	
Custody Seals intact on shipping container/cooler?	Yes	Nó	(Not present)	
Custody Seals intact on sample bottles?	(Yes>	No	Not present	
Chain of custody present?	(es)	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?	(es)	No		
Sample bottles intact?	(es)	No		
Preservations documented on Chain of Custody?	(res)	No		
Containers documented on Chain of Custody?	(Fes)			
Sufficient sample amount for indicated test?	(res)			
All samples received within sufficient hold time?	(es)	No		
VOC samples have zero headspace?	Yes	No	Not Applicable	
Other observations:				
				~~~~~
Variance Docum	entatio	n:		
Contact Person: Date/Time:			Contacted by:	
Regarding:			Contacted by.	
regarding.				
				,
Corrective Action Taken:				
*				
				

Analytical Report

5/06/2005



Analytical Report

Prepared for:

Tim Reed

Highlander Environmental Corp. 1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ F-17
Project Number: 2305
Location: Lea County, NM

Lab Order Number: 5D28003

Report Date: 05/06/05

1910 N. Big Spring St.

Midland TX, 79705

Project: Rice/F-17

Project Number: 2305

Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 05/06/05 17:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5D28003-01	Water	04/28/05 11:00	04/28/05 15:00

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 05/06/05 17:13

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5D28003-01) Water								-,	
Benzene	ND	0.00100	mg/L	1	EE50609	05/04/05	05/04/05	EPA 8021B	
Toluene	ND	0.00100		"		n		u	
Ethylbenzene	ND	0.00100				v	**	"	
Xylene (p/m)	ND	0.00100		19	o			"	
Xylene (o)	ND	0.00100	•		n		,,	"	
Surrogate: a,a,a-Trifluorotoluene		93.5 %	80-12	0	"	"	, , , , , , , , , , , , , , , , , , , ,		
Surrogate: 4-Bromofluorobenzene		98.5 %	80-12	0	"	,,	"	,,	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 05/06/05 17:13

General Chemistry Parameters by EPA / Standard Methods

Analyte MW-1 (5D28003-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	181	2.00	mg/L	1	EE50509	05/02/05	05/02/05	EPA 310.2M	
Chloride	2510	25.0		50	EE50302	05/02/05	05/02/05	EPA 300.0	
Total Dissolved Solids	4640	5.00	н	1	EE50508	05/03/05	05/04/05	EPA 160.1	
Sulfate	259	25.0		50	EE50302	05/02/05	05/02/05	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 05/06/05 17:13

Total Metals by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5D28003-01) Water									
Calcium	352	0.500	mg/L	50	EE50505	05/05/05	05/05/05	EPA 6010B	
Magnesium	216	0.0500			•	•	*	•	
Potassium	25.7	0.500	"	10		•	н	*	
Sodium	1110	10.0		1000	**	**	**		

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 05/06/05 17:13

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
					1100011	,,,,,				
Batch EE50609 - EPA 5030C (GC)									· · · · · · · · · · · · · · · · · · ·	
Blank (EE50609-BLK1)				Prepared &	Analyzed	05/04/05				
Benzene	ND	0.00100	mg/L							
Coluene	ND	0.00100	•							
Ethylbenzene	ND	0.00100	*							
Kylene (p/m)	ND	0.00100	ų							
Xylene (o)	ND	0.00100	*							
Surrogate: a,a,a-Trifluorotoluene	16.6		ug l	20.0		83.0	80-120			
Surrogate: 4-Bromofluorobenzene	16.4		"	20.0		82.0	80-120			
LCS (EE50609-BS1)				Prepared &	Analyzed	05/04/05				
Benzene	99.6		ug/l	100		99.6	80-120			
Toluene	102			100		102	80-120			
Ethylbenzene	103		**	100		103	80-120			
Xylene (p/m)	206		•	200		103	80-120			
Xylene (0)	101			100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.5		,	20.0		87.5	80-120			
Surrogate: 4-Bromofluorobenzene	23.3		"	20.0		116	80-120			
Calibration Check (EE50609-CCV1)				Prepared: (05/04/05 A	nalyzed: 0:	5/05/05			
Benzene	92.7		ug/l	100		92.7	80-120			
Toluene	92.3		**	100		92.3	80-120			
Ethylbenzene	87.7			100		87.7	80-120			
Xylene (p/m)	191		**	200		95.5	80-120			
Xylene (o)	89.9			100		89.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	16.8			20.0		84.0	80-120			
Surrogate: 4-Bromofluorobenzene	23.6		"	20.0		118	80-120			
Matrix Spike (EE50609-MS1)	Sou	rce: 5D29019-	-03	Prepared: ()5/04/05 A	nalyzed: 05	5/06/05			
Benzene	86.7		ug/l	100	ND	86.7	80-120	*******		
Toluene	88.7		"	100	ND	88.7	80-120			
Ethylbenzene	86.8		**	100	ND	86.8	80-120			
Xylene (p/m)	177		•	200	ND	88.5	80-120			
Xylene (o)	86.5			100	ND	86.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	16.5		··	20.0		82.5	80-120			
Surrogate: 4-Bromofluorohenzene	21.3		"	20.0		106	80-120			

1910 N. Big Spring St. Midland TX, 79705

Surrogate: 4-Bromofluorobenzene

Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 05/06/05 17:13

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 EE50609 - EPA 5030C (GC)									
Matrix Spike Dup (EE50609-MSD1)	Sour	ce: 5D29019-03	Prepared: (05/04/05 Aı	nalyzed: 05	/06/05			
Benzene	86.5	ug/l	100	ND	86.5	80-120	0.231	20	
Toluene	90.0	п	100	ND	90.0	80-120	1.45	20	
Ethylbenzene	90.6		100	ND	90.6	80-120	4.28	20	
Xylene (p/m)	186		200	ND	93.0	80-120	4.96	20	
Xylene (o)	91.6	u	100	ND	91.6	80-120	5.73	20	
Surrogate: a,a,a-Trifluorotoluene	16.8	"	20.0		84.0	80-120			

20.0

80-120

114

22.9

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2305 Project Manager: Tim Reed

Reported: 05/06/05 17:13

General Chemistry Parameters by EPA / Standard Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE50302 - General Preparation (We	tChem)									
Blank (EE50302-BLK1)				Prepared &	Analyzed:	05/02/05				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500								
LCS (EE50302-BS1)				Prepared &	Analyzed:	05/02/05				
Sulfate	10.4		mg/L	10.0		104	80-120			
Chloride	9.94		19	10.0		99.4	80-120			
Calibration Check (EE50302-CCV1)				Prepared &	: Analyzed:	05/02/05				
Chloride	10.9		mg/L	10.0		109	80-120			
Sulfate	11.3		u	10.0		113	80-120			
Duplicate (EE50302-DUP1)	Sour	ce: 5D28003-	01	Prepared &	Analyzed:	05/02/05				
Sulfate	215	25.0	mg/L		259	18,6	20			
Chloride	2570	25.0	"		2510			2.36	20	
Batch EE50508 - Filtration Preparation										
Blank (EE50508-BLK1)				Prepared: ()5/03/05 A	nalyzed: 05	/04/05			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EE50508-DUP1)	Sour	ce: 5D28003-	-01	Prepared: ()5/03/05 A	nalyzed: 05	/04/05			
Total Dissolved Solids	4650	5.00	mg/L		4640			0.215	20	
Batch EE50509 - General Preparation (We	tChem)									
Blank (EE50509-BLK1)				Prepared &	Analyzed:	05/02/05				
Total Alkalinity	ND	2.00	mg/L							

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St.

Reference (EE50509-SRM1)

Bicarbonate Alkalinity

Project Number: 2305

Reported:

Midland TX, 79705

Project Manager: Tim Reed

05/06/05 17:13

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

Environmentai.	Lab of	i exas	

200

Prepared & Analyzed: 05/02/05

80-120

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50509 - General Preparation	on (WetChem)									
Duplicate (EE50509-DUP1)	Sou	rce: 5D28003-	-01	Prepared &	Analyzed	: 05/02/05				
Total Alkalinity	182	2.00	ma/l		181			0.551	20	

mg/L

230

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2305
Project Manager: Tim Reed

Reported: 05/06/05 17:13

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 EE50505 - 6010B/No Digestion										_
Blank (EE50505-BLK1)				Prepared &	k Analyzed:	05/05/05				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500	•							
Sodium	ND	0.0100	u							
Calibration Check (EE50505-CCV1)				Prepared &	¿ Analyzed:	05/05/05				
Calcium	1.71		mg/L	2.00		85.5	85-115			
Magnesium	2.24		•	2.00		112	85-115			
Potassium	1.90		•	2.00		95.0	85-115			
Sodium	2.21			2.00		110	85-115			
Duplicate (EE50505-DUP1)	Sou	rce: 5D28003-	01	Prepared &	k Analyzed:	05/05/05				
Calcium	320	0.500	mg/L		352			9.52	20	
Magnesium	192	0.0500			216			11.8	20	
Potassium	21.5	0.500			25.7			17.8	20	
Sodium	999	10.0	**		1110			10.5	20	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 05/06/05 17:13

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

	Kaland K Julis		
Report Approved By:	Kacan C 110	Date:	5/6/200

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.

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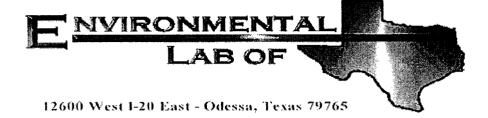
If you have received this material in error, please notify us immediately at 432-563-1800.

PAGE: OF:	ANALYSIS REQUEST Circle of Greatfy Mathod No.)		7 PR PG	, s	By Cd	2010 20	Lore 8080/ LCDR 8080 CCM3 2010 CCM3 AOT LCDS HOLD LCDS HOLD LCDS WOLD	Х						A Sierri	My Ry W JAMP JOHES Mass 230	HUS ARBILL #	UPS	PERSON:	/ m // ecg Luthansed: No	METS CONDITION WHEN RECEIVED: WINK SCOLOUP SCO
	**	2 3	SOOTET		ILS MOD	909, 1 809,	ATTA 8020, TPH 6270 PAH 6270							U.B. JOJST 70	1/4/	FEDER	STATE DELIVERED	HIGHIAND	Ø) /	
Record		JRP.		Fax (432) 682-3946	PRESERVATIVE METHOD		RONE HOS HOT KUTSHED (A	×							Time:	Time:	Date: Time:		1500	REMARKS
ain of Cistody Record	ditt of oanoxid	HIGHLANDER ENVIRONMENTAL CORP.	ring St. 3 79705		Tinfleed		Lea (04nty / NM) BE SAMPLE IDENTIFICATION		AND THE PROPERTY OF THE PROPER			The state of the s		Exercised TV. (B)	returned of jugarante)	received by: (algorithe)	RECEIVED BY: (Signature)	RECEIVED HY: (Signatura)	04-38-05 mis.	siss A-Ar M-Solid al M-Maigs O-Olher
and the	מממה מינים	DER ENVIR	1910 N. Big Spring St. Midland, Texas 79705		SITE MANAGER:	PROJECT NAME: F-17	COMP. SAMPLE IDE SAMPLE IDE	NW-1						4118H5	Time: 1-00	Vate:	Date:	1	STATE: TREE	WATER States Seal on Seal
Arialwais Rounest	TONE OF CANADA	HIGHLAN		(432) 682-4559	CLENT NAME: NICE	PROJECT NO.: 2305 P	IAB ID. DATE TIME EN NUMBERS	00:11 Jal8214						the self-street and the self-street	Maringonish Agri: (Supparato)	RELINGUISHED BY: (Signeture)	HELINGUISHED BY: (Signature)	ERCEIVING LABORATORY: ENGINEET MATER TOP OF IT ILES	CONTACT: C desyr	SAMPLE CONDITION WHEN RECEIVED: WICKLES (C.O.C. 1-L. H.D.P.E. 2-417-04.0 (KSS WH) Soils

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

11 to but I have	
ient: Highlander	
ate/Time: 4/28/05 8:15	
ste/Time: 4(1/0)00 6.10	•
order #: 501003_	
· N ()/	
nitials:	
Sample Receip	t Checklist
emperature of container/cooler?	I Yes I No I (p.C) CI
hicking container/cooler in good condition?	1 Yes No
Custody Seals intact on shipping container/cooler?	Yas No I Not cressor
Justody Seals intact on sample potities?	Zas, No. Not cresent
hain of custody present?	Nes No
sample Instructions complete on Chain of Custody?	No ! No !
Chain of Custody signed when railinguished and received?	1 tags No
Chain of custody agraes with sample label(s)	Tree No .
Container labels legible and Intact?	No No
Sample Metrix and properties same as on chain of custody?	1 789 : No
Samples in proper container/bottle?	Yes : No
Samples properly preserved?	CASS NO
Samole Sottles intact?	1000 NC
reservations documented on Chain of Gustody?	Jes No
Containers documented on Chain of Quelogy?	No No
Sufficient sample amount for indigated test?	To No
All samples received within sufficient hold time?	No .
VCC samples have zero headspage?	1 Vey No Net Applicable
Diher observations:	
Variance Decu	
Contact Person: Date.Time:	Contacted by:
Regarding:	
· · · · · · · · · · · · · · · · · · ·	
Corrective Action Taken:	
GENERAL WORCH LEVERY	
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Analytical Report 6/28/2005



Analytical Report

Prepared for:

Tim Reed
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Rice/ F-17
Project Number: 2305
Location: None Given

Lab Order Number: 5F22004

Report Date: 06/28/05

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/ F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 06/28/05 16:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-I	5F22004-01	Water	06/21/05 16:15	06/22/05 09:00

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 06/28/05 16:46

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5F22004-01) Water	·		 -)
Benzene	ND	0.00100	mg/L	1	EF52711	06/27/05	06/27/05	EPA 8021B	
Toluene	ND	0.00100	n	**	11	**	"	"	
Ethylbenzene	ND	0.00100	н		19	"		н	
Xylene (p/m)	ND	0.00100	**	н	"	•	.,	н	
Xylene (o)	ND	0.00100		n		"	н	"	
Surrogate: a,a,a-Trifluorotoluene		114%	80-12	0	"	"	"	m	
Surrogate: 4-Bromofluorobenzene		102 %	80-12	0	"	n	"	"	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 06/28/05 16:46

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5F22004-01) Water									
Total Alkalinity	186	2.00	mg/L	1	EF52213	06/22/05	06/22/05	EPA 310,2M	
Chloride	2310	50.0	**	100	EF52301	06/22/05	06/22/05	EPA 300.0	
Total Dissolved Solids	4770	10.0		2	EF52212	06/22/05	06/23/05	EPA 160.1	
Sulfate	339	50.0		100	EF52301	06/22/05	06/22/05	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 06/28/05 16:46

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5F22004-01) Water									
Calcium	354	0.500	mg/L	50	EF52306	06/23/05	06/23/05	EPA 6010B	
Magnesium	178	0.0500		Hr.		"	,	u	
Potassium	18.0	0.500	•	10	0	*	"	n	
Sodium	821	1.00		100	•	N	**	н	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 06/28/05 16:46

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source	0,000	%REC	200	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF52711 - EPA 5030C (GC)										····
Blank (EF52711-BLK1)				Prepared &	: Analyzed:	06/27/05				
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	21.7		ug l	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	19.2		"	20.0		96.0	80-120			
LCS (EF52711-BS1)				Prepared &	k Analyzed:	06/27/05				
Benzene	104		ug/l	100		104	80-120			
Toluene	105			100		105	80-120			
Ethylbenzene	105			100		105	80-120			
Xylene (p/m)	206		**	200		103	80-120			
Xylene (o)	97.9		**	100		97.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2		,,	20.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	23.8		"	20.0		119	80-120			
LCS Dup (EF52711-BSD1)				Prepared &	Ł Analyzed:	06/27/05				
Benzene	104		ug/l	100		104	80-120	0.00	20	
Toluene	106			100		106	80-120	0.948	20	
Ethylbenzene	98.9		•	100		98.9	80-120	5.98	20	
Xylene (p/m)	207		**	200		104	80-120	0.966	20	
Xylene (o)	93.7		10	100		93.7	80-120	4.38	20	
Surrogate: a,a,a-Trifluorotoluene	23.2		· "	20.0		116	80-120			
Surrogate: 4-Bromofluorohenzene	21.4		"	20.0		107	80-120			
Calibration Check (EF52711-CCV1)				Prepared: (06/27/05 A	nalyzed: 06	5/28/05			
Benzene	96.9		ug/l	100		96.9	80-120			
Toluene	98.6			100		98.6	80-120			
Ethylbenzene	92.8			100		92.8	80-120			
Xylene (p/m)	193			200		96.5	80-120			
Xylene (o)	87.5			100		87.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.4		- ;;	20.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	20.0		"	20.0		100	80-120			

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 06/28/05 16:46

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 EF52711 - EPA 5030C (GC)									
Matrix Spike (EF52711-MS1)	Sour	ce: 5F27009-02	Prepared:	06/27/05 A	nalyzed: 06	6/28/05			
Benzene	92.7	ug/l	100	ND	92.7	80-120			
Toluene	91.7	*	100	ND	91.7	80-120			
Ethylbenzene	87.5	*	100	ND	87.5	80-120			
Xylene (p/m)	177	н	200	ND	88.5	80-120			
Xylene (o)	85.0		100	ND	85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.0		20.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	22.0	"	20.0		110	80-120			

Project: Rice/F-17

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2305 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 06/28/05 16:46

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 EF52212 - Filtration Preparatio	on									
Blank (EF52212-BLK1)				Prepared: (06/22/05 A	nalyzed: 06	/23/05			
Total Dissolved Solids	ND	5.00	mg/L		- • •					
Duplicate (EF52212-DUP1)	Source	e: 5F16004-	04	Prepared: (06/22/05 A	nalyzed: 06	/23/05			
Total Dissolved Solids	277	5.00	mg/L		276			0.362	20	
Batch EF52213 - General Preparation	(WetChem)									
Blank (EF52213-BLK1)				Prepared &	Analyzed:	06/22/05				
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EF52213-DUP1)	Source	e: 5F16009-	01	Prepared &	: Analyzed:	06/22/05				
Total Alkalinity	153	2.00	mg/L		153			0.00	20	
Reference (EF52213-SRM1)				Prepared &	Analyzed:	06/22/05				
Bicarbonate Alkalinity	230		mg/L	200	<u>-</u>	115	80-120			
Batch EF52301 - General Preparation	ı (WetChem)									
Blank (EF52301-BLK1)				Prepared &	Analyzed:	06/22/05			_	
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	19							
LCS (EF52301-BS1)				Prepared &	Analyzed:	06/22/05				
Chloride	11.8		mg/L	10,0		118	80-120			•

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St.

Analyte

Chloride

Project Number: 2305

Reported: 06/28/05 16:46

0.587

20

Midland TX, 79705 Project Manager: Tim Reed

17.1

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

	 					-					
		Deporting		Spike	Source		%REC		RPD		
		Reporting		Spike	Source		MINIC		KI D		
e	Recult	1 imit	Unite	Level	Result	%REC	Limits	RPD	Limit	Notes	

17.0

Calibration Check (EF52301-CCV1)				Prepared & Anal	yzed: 06/22/05		_		
Chloride	10.7		mg/L	10.0	107	80-120			
Sulfate	10.0		•	10.0	100	80-120			
Duplicate (EF52301-DUP1)	Sourc	e: 5F21001-01	i	Prepared & Anal	yzed: 06/22/05				
Sulfate	25.7	2.50	mg/L	28	3.1		8.92	20	

2.50

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/ F-17

Project Number: 2305 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 06/28/05 16:46

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source	0.555	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF52306 - 6010B/No Digestion										
Blank (EF52306-BLK1)				Prepared &	Analyzed:	06/23/05				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	10							
Potassium	ND	0.0500								
Sodium	ND	0.0100	н							
Calibration Check (EF52306-CCV1)				Prepared &	Analyzed:	06/23/05				
Calcium	1.79		mg/L	2.00		89.5	85-115			
Magnesium	2.07		*	2.00		104	85-115			
Potassium	1.76		*	2.00		88.0	85-115			
Sodium	1.91			2.00		95.5	85-115			
Duplicate (EF52306-DUP1)	Sou	rce: 5F21017-	01	Prepared &	: Analyzed:	06/23/05				
Calcium	58.8	0.100	mg/L		57.8			1.72	20	• •
Magnesium	22.8	0.0100	*		23.0			0.873	20	
Potassium	18.3	0.500	*		19.2			4.80	20	
Sodium	150	0.500			155			3.28	20	

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2305
Project Manager: Tim Reed

Reported: 06/28/05 16:46

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland Kitub

Date:

6/28/2005

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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PAGE: / OF: /	(Circle or Specify Method No.)	55	S NA PA	20-13-14-15-15-15-15-15-15-15-15-15-15-15-15-15-	5, Chlor 1860/62 1860/62 186 Cd 186 Cd	808/1.608 1.6 Ag Au 1.6 Ag Au 1.6 Ag Au 1.6 Ag Au 1.6 Ag Au 1.6 Ag 1.6	TCTP Motes TCTP Sound	XXX						SAMPLED BY: (Print de Sen) (Dato: 1421/05	ar: (Cr	***************************************	HEHANDER CONTACT PRESON: RUBB CRAPE	I'M KECK Matherined. No	01 1 C-My 40 C
and Chain of Custody Record		HIGHLANDER ENVIRONMENTAL CORP.	1910 N. Big Spring St. Midland, Texas 79705		SITE MANAGER, QUE BE PRESERVATIVE TIME METHOD	L2	NONE HOS HOS HOS HOS HOS HOS HOS HOS HOS HOS	MW-1 3 XX						(A) A SECRIVED BY: (Signature) Date:	RECEIVED BY: (Signature) Date:	RELIEFED BY: (Signature) Date:	Lake Radarty BY: (Signature) (20 0)	3. 1600 north (e/20105 mm	MATRIE (W. Weter A-11: W301d REMARCS: 8-501
Analvais Remiest	TATAL AND AND AND AND AND AND AND AND AND AND	HIGHLANDER	1910 J	(432) 682-4559	FILE OPERATING	PROJECT YO. FROJECT NAME.	NUMBER TAKE TAKE TAKE TAKE TAKE TAKE TAKE TAKE	101 64/16/5					7	RELIGIOUSIED HY Cometure Deter	(RELINGUISHED BY: (Mgneture) Date:	RELINGUISHED BY: (Signature) Date:	RECEIVED LABORATORY. Edition Edital	CONTROL TEACHER THONE SE	SALPIE CONDITION THEN RECEIVED: WATRIE.

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

Client: Highlandor					
Date/Time: 12/2/05 9:15					
Order #: <u>5-72004</u>					
Initials:					
Sample Receip	t Checkli	st			
Temperature of container/cooler?	Yes	No	4.0	C	
Shipping container/cooler in good condition?	(ES)	No			
Custody Seals intact on shipping container/cocier?	(ES)		Not presen	t	
Custody Seals intact on sample bottles?	(E3)	No	Not presen		
Chain of custody present?	(Fes)	No			
Sample Instructions complete on Chain of Custody?	(es)	No			
Chain of Custody signed when relinquished and received?	(es)				
Chain of custody agrees with sample lacel(s)	Ø€3	No		i	
Container labels legible and intact?	TES I	No			
Sample Matrix and properties same as on chain of custody?	रिंडड,				
Samples in procer container/bottle?	(Zes)	No			
Samples properly preserved?					
Sample bottles intact?	(es				
Preservations documented on Chain of Custody?	P(\$\$)				
Containers documented on Chain of Custody?	(285)				
Sufficient sample amount for indicated test?	1 dress			<u>'</u>	
All samples received within sufficient hold time?	(Y∈9		·····		
VOC samples have zero headspace?	र के			cie	
Variance Docu	ımentatio	on:			
Contact Person: Date/Time:			Contacted I	by:	
Regarding:					
			·	·····	
A Standard				······································	
Corrective Action Taken:					
				· · · · · · · · · · · · · · · · · · ·	
	**				
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			***************************************	· · · · · · · · · · · · · · · · · · ·	

Analytical Report 9/28/2005



Analytical Report

Prepared for:

Tim Reed
Highlander Environmental Corp.
1910 N. Big Spring St.
Midland, TX 79705

Project: Rice/F-17
Project Number: 2305
Location: None Given

Lab Order Number: 5I19006

Report Date: 09/28/05

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St.

Project Number: 2305

Reported: 09/28/05 15:18

Midland TX, 79705

Project Manager: Tim Reed

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5119006-01	Water	09/16/05 10:45	09/16/05 15:45

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 09/28/05 15:18

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5I19006-01) Water	·								
Benzene	ND	0.00100	mg/L	1	EI51910	09/21/05	09/22/05	EPA 8021B	
Toluene	ND	0.00100	n			n	"	11	
Ethylbenzene	ND	0.00100	17	**	"	"	"	**	
Xylene (p/m)	ND	0.00100	"	17	Ħ	н	"	11	
Xylene (o)	ND	0.00100	n	11	n	"	*1	11	
Surrogate: a,a,a-Trifluorotoluene		94.5 %	80-12	0	"	,,	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	80-12	0	n	"	"	,,	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 09/28/05 15:18

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5I19006-01) Water									
Total Alkalinity	173	2.00	mg/L	1	EI52214	09/21/05	09/21/05	EPA 310.2M	
Chloride	1890	25.0	**	50	EI52001	09/19/05	09/20/05	EPA 300.0	
pН	7.09		pH Units	1	EI52004	09/19/05	09/19/05	EPA 150.1	O-04
Total Dissolved Solids	4540	5.00	mg/L	"	EI52607	09/21/05	09/22/05	EPA 160.1	
Sulfate	147	25.0	"	50	E[52001	09/19/05	09/20/05	EPA 300.0	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 09/28/05 15:18

Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5I19006-01) Water									
Calcium	312	0.500	mg/L	50	EI52709	09/27/05	09/27/05	EPA 6010B	
Magnesium	152	0.0500	**	#	"	*	*	"	
Potassium	15.8	0.500	**	10	u	"	"	**	
Sodium	548	2.00	"	200	"	"	11	**	

1910 N. Big Spring St. Midland TX, 79705 Project: Rice/F-17

Project Number: 2305
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 09/28/05 15:18

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
Batch EI51910 - EPA 5030C (GC)										
Blank (EI51910-BLK1)				Prepared: 0	09/19/05 Ai	nalyzed: 09	/22/05			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	u							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	37.3	*	ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0		89.2	80-120			
LCS (EI51910-BS1)				Prepared: (09/19/05 A	nalyzed: 09	/21/05			
Benzene	45.3		ug/l	50.0		90.6	80-120			
Toluene	42.9		n	50.0		85.8	80-120			
Ethylbenzene	48.3		n	50.0		96.6	80-120			
Xylene (p/m)	89.1		n	100		89.1	80-120			
Xylene (o)	54.6		"	50.0		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		n	40.0		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	46.0		u	40.0		115	80-120			
Calibration Check (EI51910-CCV1)				Prepared: (09/19/05 A	nalyzed: 09	/22/05			
Benzene	47.1	•	ug/l	50.0		94.2	80-120			
Toluene	44.9		er	50.0		89.8	80-120			
Ethylbenzene	49.1		**	50.0		98.2	80-120			
Xylene (p/m)	89.8		*	100		89.8	80-120			
Xylene (o)	52.6		**	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		"	40.0		94.2	0-200			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	0-200			
Matrix Spike (EI51910-MS1)	Sou	rce: 5115012-3	34	Prepared: (09/19/05 A	nalyzed: 09	0/22/05			
Benzene	41.2		ug/l	50.0	ND	82.4	80-120			•
Toluene	40.3		"	50.0	ND	80.6	80-120			
Ethylbenzene	40.0		"	50.0	ND	80.0	80-120			
Xylene (p/m)	80.7		"	100	ND	80.7	80-120			
Xylene (o)	40.6		"	50.0	ND	81.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		"	40.0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	34.6		"	40.0		86.5	80-120			

1910 N. Big Spring St. Midland TX, 79705

Analyte

Project: Rice/F-17

Project Number: 2305 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 09/28/05 15:18

Organics by GC - Quality Control Environmental Lab of Texas

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

Matrix Spike Dup (EI51910-MSD1)	Source: 5115012-34		Prepared: 0	19/19/05 A	nalyzed: 09	9/22/05		
Benzene	42.6	ug/l	50.0	ND	85.2	80-120	3.34	20
Toluene	40.0	rı .	50.0	ND	80.0	80-120	0.747	20
Ethylbenzene	41.6	u	50.0	NĐ	83.2	80-120	3.92	20
Xylene (p/m)	81.2	н	100	ND	81.2	80-120	0.618	20
Xylene (o)	42.9	n	50.0	ND	85.8	80-120	5.51	20
Surrogate: a,a,a-Trifluorotoluene	35.1	п	40.0		87.8	80-120	-	
Surrogate: 4-Bromofluorobenzene	35.6	"	40.0		89.0	80-120		

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2305

Reported: 09/28/05 15:18

Project Manager: Tim Reed

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 EI52001 - General Preparation (V	VetChem)									
Blank (EI52001-BLK1)				Prepared:	09/19/05 A	nalyzed: 09	9/20/05			
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	Ħ							
LCS (EI52001-BS1)				Prepared:	09/19/05 A	nalyzed: 09	9/20/05			
Chloride	8.10		mg/L	10.0		81.0	80-120			
Sulfate	8.85		•	10.0		88.5	80-120			
Calibration Check (EI52001-CCV1)				Prepared:	09/19/05 A	nalyzed: 09	9/20/05			
Chloride	10.2		mg/L	10.0		102	80-120			
Sulfate	10.2		"	10.0		102	80-120			
Duplicate (EI52001-DUP1)	Sou	rce: 5I19003-	01	Prepared:	09/19/05 A					
Chloride	154	5.00	mg/L		151			1.97	20	
Sulfate	134	5.00	**		133			0.749	20	
Batch EI52004 - General Preparation (V	VetChem)									
Calibration Check (EI52004-CCV1)				Prepared &	k Analyzed	09/19/05				
рН	6.96		pH Units	7.00		99.4	97.5-102.5			O-0
Duplicate (EI52004-DUP1)	Sou	rce: 5I19003-	01	Prepared &	2 Analyzed	09/19/05				
pH	7.27		pH Units		7.32			0.685	2.5	O-0
Batch EI52214 - General Preparation (V	VetChem)							_		
Blank (EI52214-BLK1)				Prepared &	k Analyzed	09/21/05				
Total Alkalinity	ND	2.00	mg/L							

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St.

Project Number: 2305

Reported:

Midland TX, 79705

Project Manager: Tim Reed

09/28/05 15:18

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 EI52214 - General Preparation (V	VetChem)									
Calibration Check (EI52214-CCV1)				Prepared &	z Analyzed:	09/21/05				
Bicarbonate Alkalinity	229		mg/L	200		114	80-120			
Duplicate (EI52214-DUP1)	Sour	ce: 5I19006-(1	Prepared &	k Analyzed:	09/21/05				
Total Alkalinity	174	2.00	mg/L		173			0.576	20	
Batch EI52607 - General Preparation (\	VetChem)									
Blank (EI52607-BLK1)	vecenom)			Prepared &	k Analyzed:	09/22/05				
	ND	5.00	mg/L	Prepared &	ż Analyzed:	09/22/05				
Blank (EI52607-BLK1)	ND	5.00 ce: 5119003-0			ż Analyzed: ż Analyzed:					
Blank (EI52607-BLK1) Total Dissolved Solids	ND				· · · · · · · · · · · · · · · · · · ·			3.39	5	
Blank (EI52607-BLK1) Total Dissolved Solids Duplicate (EI52607-DUP1)	ND Sour 812	ce: 5I19003-0	ng/L	Prepared &	Ł Analyzed:	09/22/05		3.39	5	

Project: Rice/F-17

Fax: (432) 682-3946

1910 N. Big Spring St. Midland TX, 79705 Project Number: 2305
Project Manager: Tim Reed

Reported: 09/28/05 15:18

Total Metals 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

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI52709 - 6010B/No Digestion								*		
Blank (EI52709-BLK1)				Prepared &	k Analyzed:	09/27/05				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500	**							
Sodium	ND	0.0100	"							
Calibration Check (EI52709-CCV1)				Prepared &	k Analyzed	09/27/05				
Calcium	2.02		mg/L	2.00		101	85-115		-	
Magnesium	1.83		"	2.00		91.5	85-115			
Potassium	2.08		н	2.00		104	85-115			
Sodium	1.77		n	2.00		88.5	85-115			
Duplicate (E152709-DUP1)	Sou	rce: 5I19003-6	01	Prepared &	& Analyzed	09/27/05				
Calcium	78.0	0,500	mg/L		80.2			2.78	20	
Magnesium	32.2	0.0100	**		32.6			1.23	20	
Potassium	8.07	0.250	11		8.08			0.124	20	
Sodium	88.9	0.500	н		87.7			1,36	20	

 Highlander Environmental Corp.
 Project:
 Rice/ F-17
 Fax: (432) 682-3946

 1910 N. Big Spring St.
 Project Number:
 2305
 Reported:

 Midland TX, 79705
 Project Manager:
 Tim Reed
 09/28/05 15:18

Notes and Definitions

O-04 This sample was analyzed outside the EPA recommended holding time. 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

	Roland Kitub		
Report Approved By:	Karan C 100	Date:	9/28/2005

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

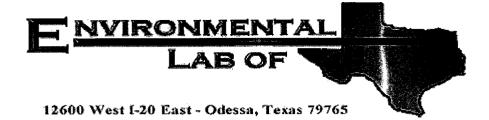
ar:	•	stnod No.)		400	Cilion	808, (24) (24) (20) (80)	Peat. 608/ Genome Sg Alpha Bett PIM (Anbe	×					4//8/16	Time. 2:30	ARBILL #	OTHER.	AMERICA (V.	Autharfaed: Yes Ro	
PACE:	ANAI			생 전 생 전	e Be ce	HAOF E SON	PAH GETU TCIP Mela TCIP Mela TCIP VOIGE	×					The state of the s	flex tops (M/2)	SAMPLE SHIPPED BY: (Circle)	CALLED DELIVERED UP-S	HIGHLANDER CONTACT PERSON:	Tindreed	
Chatody Record	- * A A A A & C &	CORP.	material franchis de con-	(432) 682-3946	R PRESERVATIVE	(N/A	NONE ICE HAOS HCT LOTEURO (ROTEURO (3 M X X						Time:	Date: Time:	Dete:	, 0	3:42	
and Chain of Chatod	5	NTAL	. Big Spring St.	Midiand, leass (9700 Fax	SITE MANAGER: Tin Seed	2-17	Sample identification		Andrew Market and the Control of the	AND THE RESERVE OF THE PROPERTY OF THE PROPERT		Andrew and the second designation of the sec	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	TO COMPANY ST. (Suprature)	RECEIVED BY: (Signature)	RECEIVED BY: (Signeture)	HECHVERN BY: (Stenkture) / / (7	A-str SD-Sulid SL-Studge O-Other
Analyzia Rannost an		HIGHLANDER ENVIRONME	1910 N.	MIGIRIIG (432) 682-4559	CLIENT NAME: RICE	PROJECT NO.: 2305 PROJECT NAME: -	IAB I.D. DATE THE SIX COMP.	11.5h:01 Sollille						RELINGUISHED SH. (Signature) Date:	RELINQUISHED BY: (Signature) Date:	KELINQUISHED BY: (Signature) Date:	DEPARTMENT LEAVENING F L	STATE: TK	1

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

Client: Highlander				
Date/Time: 4/14/05 3:45				
Order#: 5T 19006				
Initials:	,			
Sample Receipt	Checkli	st		
Temperature of container/cooler?	Yes!	No	3.0 C	
Shipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seais intact on sample bottles?	VES !	No	Not present	
Chain of custody present?	Yes I	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yês	lvo l	,	
Chain of custody agrees with sample label(s)	Xes	No I		
Container labels legible and intact?	X35	No		
Sample Matrix and properties same as on chain of custody?	Yes	No	· · · · · · · · · · · · · · · · · · ·	
Samples in proper container/boitie?	Yes	No I		b
Samples properly preserved?	Yes	No		
Sample bottles intact?	Yes			
Preservations documented on Chain of Custody?	Yes.			
Containers documented on Chain of Custody?	YES	No		
Cufficient sample amount for indicated test?	Yes			
All samples received within sufficient hold time? VOC samples have zero headspace?	Yes.	No No	Not Applicable	
Other observations:				
Variance Docu	mentatio	on:		
Contact Person: Date/Time: Regarding:				
Corrective Action Taken:				

Analytical Report

10/31/2005



Analytical Report

Prepared for:

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

Project: BD Jct. F-17
Project Number: None Given
Location: Lea County

Lab Order Number: 5J20010

Report Date: 10/31/05

Project: BD Jct. F-17
Project Number: None Given

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

Fax: (505) 397-1471

Reported: 10/31/05 10:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	5J20010-01	Water	10/17/05 14:20	10/20/05 09:30

Project Number: BD Jct. F-17
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
10/31/05 10:41

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (5J20010-01) Water									
Benzene	ND	0.00100	mg/L	1	EJ52011	10/20/05	10/20/05	EPA 8021B	
Toluene	ND	0.00100	n	n	n	"	Ħ	**	
Ethylbenzene	ND	0.00100.0	11	"	"	н	n	11	
Xylene (p/m)	ND	0.00100	n	н	11	"	"	#	
Xylene (o)	ND	0.00100	11	11	"	"	11	"	
Surrogate: a,a,a-Trifluorotoluene		95.0 %	80-12	0	п	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-12	0	"	n	"	"	

Project: BD Jct. F-17

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

Fax: (505) 397-1471

Reported: 10/31/05 10:41

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well #1 (5J20010-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	166	2.00	mg/L	1	EJ52114	10/21/05	10/21/05	EPA 310.2M	
Chloride	2400	50.0	"	100	EJ52110	10/21/05	10/21/05	EPA 300.0	
Total Dissolved Solids	4830	5.00	**	1	EJ52403	10/20/05	10/21/05	EPA 160.1	
Sulfate	319	50.0	"	100	EJ52110	10/21/05	10/21/05	EPA 300.0	

Project: BD Jct. F-17

None Given

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

Fax: (505) 397-1471

Reported: 10/31/05 10:41

Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (5J20010-01) Water									
Calcium	295	1.00	mg/L	100	EJ52111	10/21/05	10/21/05	EPA 6010B	
Magnesium	129	0.0500	**	50	H	u	H	11	
Potassium	16.8	0.500	"	10	n	Ħ	"	11	
Sodium	753	1.00	**	100	"	"	"	"	

Project: BD Jct. F-17

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

Fax: (505) 397-1471

Reported: 10/31/05 10:41

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
			Cints			761626	Dillito		- Dilling	710103
Batch EJ52011 - EPA 5030C (GC)		·								
Blank (EJ52011-BLK1)				Prepared &	Analyzed:	10/20/05				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	n							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	п							
Surrogate: a,a,a-Trifluorotoluene	38.1		ug/l	40.0		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.4		"	40.0		88.5	80-120			
LCS (EJ52011-BS1)				Prepared &	Analyzed	10/20/05				
Benzene	0.0402	0.00100	mg/L	0.0500		80.4	80-120			
Toluene	0.0490	0.00100	"	0.0500		98.0	80-120			
Ethylbenzene	0.0592	0.00100	н	0.0500		118	80-120			
Xylene (p/m)	0.115	0.00100	u	0.100		115	80-120			
Xylene (o)	0.0584	0.00100	**	0.0500		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120		<u>.</u>	
Surrogate: 4-Bromofluorobenzene	39.9		и	40.0		99.8	80-120			
Calibration Check (EJ52011-CCV1)				Prepared: 1	0/20/05 Å	nalyzed: 10	0/24/05			
Benzene	0.0598		mg/L	0.0500		120	80-120			
Toluene	0.0593		"	0.0500		119	80-120			
Ethylbenzene	0.0586		"	0.0500		117	80-120			
Xylene (p/in)	0.113		Ħ	0.100		113	80-120			
Xylene (o)	0.0584		**	0.0500		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.9		ug I	40.0		115	80-120			
Surrogate: 4-Bromofluorohenzene	40.0		"	40.0		100	80-120			
Matrix Spike (EJ52011-MS1)	Sou	ırce: 5J20030-	02	Prepared: 1	0/20/05 A	nalyzed: 10	0/24/05			
Benzene	0.0578	0.00100	mg/L	0.0500	ND	116	80-120			
Toluene	0.0568	0.00100	"	0.0500	ND	114	80-120			
Ethylbenzene	0.0584	0.00100		0.0500	ND	117	80-120			
Xylene (p/m)	0.109	0.00100	"	0.100	ND	109	80-120			
Xylene (o)	0.0571	0.00100	"	0.0500	ND	114	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.9		ug l	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	34.8		"	40.0		87.0	80-120			

Project: BD Jct. F-17

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

Fax: (505) 397-1471

Reported: 10/31/05 10:41

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
Batch EJ52011 - EPA 5030C (GC)								-		
Matrix Spike Dup (EJ52011-MSD1)	Sou	rce: 5J20030-	02	Prepared: 1	10/20/05 A	nalyzed: 10	/24/05			
Benzene	0.0591	0.00100	mg/L	0.0500	ND	118	80-120	1.71	20	
Toluene	0.0599	0.00100	"	0.0500	ND	120	80-120	5.13	20	
Ethylbenzene	0.0597	0.00100		0.0500	ND	119	80-120	1.69	20	
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120	8.77	20	
Xylene (o)	0.0596	0.00100	••	0.0500	ND	119	80-120	4.29	20	
Surrogate: a,a,a-Trifluorotoluene	43.8		ug/I	40.0		110	80-120			
Surrogata: 4-Rromofluorohanzana	40.7		"	.10.0		102	80 120			

Project: BD Jct. F-17

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

Fax: (505) 397-1471

Reported: 10/31/05 10:41

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

				0.3			A/DEC		200	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ52110 - General Preparation (Wet	Chem)									
Blank (EJ52110-BLK1)				Prepared &	Analyzed:	10/21/05				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	**							
LCS (EJ52110-BS1)				Prepared &	Analyzed:	10/21/05				
Chloride	8.53		mg/L	10.0		85.3	80-120			
Sulfate	8.86		"	10.0		88.6	80-120			
Calibration Check (EJ52110-CCV1)				Prepared &	Analyzed:	10/21/05				
Chloride	8.88		ıng/L	10.0 -		88.8	80-120			
Sulfate	9.26		11	10.0		92.6	80-120			
Duplicate (EJ52110-DUP1)	Sou	rce: 5J20007-0	01	Prepared &	Analyzed:	10/21/05				
Chloride	992	12.5	mg/L		978			1.42	20	
Sulfate	355	12.5	n		357			0.562	20	
Batch EJ52114 - General Preparation (Wet	Chem)									
Blank (EJ52114-BLK1)				Prepared 8	k Analyzed	10/21/05				
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EJ52114-DUP1)	Sou	rce: 5J20006-	01	Prepared &	Analyzed:	10/21/05				
Total Alkalinity	229	2.00	mg/L		230			0.436	20	
Reference (EJ52114-SRM1)				Prepared &	k Analyzed	10/21/05				
Bicarbonate Alkalinity	229		mg/L	200		114	80-120			

Project: BD Jct. F-17

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 10/31/05 10:41

oneral Chemistry Parameters by FPA / Standard Metho

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 EJ52403 - General Preparation	on (WetChem)									
Blank (EJ52403-BLK1)				Prepared: 1	0/20/05 A	nalyzed: 10	/21/05			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EJ52403-DUP1)	Sour	ce: 5J20006-0	01	Prepared: 1	10/20/05 A	nalyzed: 10	/21/05			
Total Dissolved Solids	732	5.00	mg/L		766			4.54	5	

Rice Operating Co. 122 W. Taylor Project: BD Jct. F-17

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

Reported: 10/31/05 10:41

Total Metals by EPA / Standard Methods - Quality Control Environmental Lab of Texas

A 1	Danda	Reporting	Units	Spike	Source	0/ DEC	%REC Limits	RPD	RPD Limit	Massa
Analyte	Result	Limit	Onits	Level	Result	%REC	Limits	KPD	Limit	Notes
Batch EJ52111 - 6010B/No Digestion										
Blank (EJ52111-BLK1)				Prepared &	k Analyzed:	10/21/05				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	Ħ							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	15							
Calibration Check (EJ52111-CCV1)				Prepared &	k Analyzed:	10/21/05				
Calcium	1.94		mg/L	2.00		97.0	85-115			
Magnesium	2.11		n	2.00		106	85-115			
Potassium	1.86		11	2.00		93.0	85-115			
Sodium	1.89		n	2.00		94.5	85-115			
Duplicate (EJ52111-DUP1)	Sou	rce: 5J20006-	01	Prepared &	k Analyzed:	10/21/05				
Calcium	43.0	0.100	mg/L		43.2			0.464	20	
Magnesium	23.8	0.0100	*		24.0			0.837	20	
Potassium	0.11	0.500	n		10.9			0.913	20	
Sodium	136	0.500	11		135			0.738	20	

MS

Dup

Project: BD Jct. F-17

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

Fax: (505) 397-1471

Reported: 10/31/05 10:41

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

Matrix Spike
Duplicate

Report Approved By:

Date:

10/31/2005

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.

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.

TAT brabnat2 Bluberto2-e19) TAT HSU9 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST MA.O.V RCI Project Loc: LOA COUNTY Femperature Upon Receipt Sample Containers Intact BTEX 8021195030 aboratory Comment Project Name: 30 রগারিক্সক, Actale: As Ag Ba Cd Cr Pb Hg So 5 ₩ Od Project #: uions (Cl. SC4, CO3, HCO3) (Ca, Mg, Na, IQ 1991: 418.1 8015M 1005 1006 Other (specify): 801 Koritesund Pualozuotzam COZANNE & UALORMETICON Sindge Mater ezanne Johnson (605) 631-9310 Other (Specify) Fax No: (505) 397-147 Hone *OS^zH HORN ЮН гоин 88240 No. of Containers 3 02:4/ Time Sampled Operating Company ax lor Street Environmental Lab of Texas I, Ltd. 12600 West 1.20 East Phone. 345 663-1800 Odessa, Texas 79763 Fax: 475 563-1713 Project Wanager: Krishin Farris Pope. Date Sampled ILIJO 1.41.9-393-9175 FIELD CODE Now For Well City/State/Zip: Habbs Company Name KTC Company Address: | 22 Telephome No: 555 Sampler Signatura pecial Instructions:

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

Client:						
Date/Time: 10/20/05 9:30						
Order #: 5520010						
nitials:						,
Sample Receipt	Checkli	ist				
Temperature of container/cooler?	Yes	No	1,0	С		
Shipping container/cooler in good condition?	Yes	No				
Custody Seals intact on shipping container/cooler?	Yes	No	Not presen	t i		
Custody Seals intact on sample bottles?	Yes	No	Not presen			
Chain of custody present?	esy	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)	Y E9	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?	Y(ES)	No				
Sample bottles intact?	Yes	No		7		
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 Applicat	ole		
Other observations:			d de Marie Marie y primingua na majer sana Para Marie Marie na na paga paga paga paga paga paga pag			<u>.</u>
Variance Document Contact Person: - Date/Time: Regarding:			Contacted I	oy:	1	
Corrective Action Taken:						
		·	***************************************			
		mune en Madrindin, se escunudu dibilga	,		gr. 1770, gg	
		·	*			
						
			and the state of t			