# **AP - 048**

# ANNUAL GW REPORT

DATE: 2006

# Highlander Environmental Corp. Annual GW Mon Midland, Texas Report 2006

**CERTIFIED MAIL** RETURN RECEIPT NO. 7004 2510 0001 1869 0934

March 7, 2007

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

2006 Annual Groundwater Summary Report & Project Status Report, Rice Re: Operating Company, Justis Saltwater Disposal System (SWD) Jct. L-1, Unit L, Section 1, T-25-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-0 (AP-48)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) submits the following 2006 Annual Groundwater Summary Report for the Rice Operating Company (ROC), Jct. L-1 site (AP-48), located in the Justis Salt Water Disposal System.

#### **Background**

As part of the RICE Operating Company (ROC) Junction Box Upgrade Workplan, the original Justis L-1 junction box was removed and replaced with a new water tight junction box, located 50 feet south of the old box. Once the junction box was removed, evaluation of the surrounding and subsurface soils was initiated. Delineation was conducted with a backhoe. Chloride testing and PID field screening were performed at regular intervals. The final excavation measured 20 feet x 22 feet x 12 feet deep. PID concentrations were minimal and laboratory confirmed TPH concentrations were well below NMOCD regulatory guidelines. Chloride concentrations, however, did not appear to decline with depth.

On 12/29/2003, a soil boring was placed into the center of the excavation and advanced to a depth of 80' below ground surface, apparently encountering a saturated zone at 75' below ground surface. The borehole was plugged and a 1.5 foot thick clay barrier was placed into the excavation at 6 feet below ground surface. The remainder of the excavation was backfilled with excavated soils. No TPH impact to groundwater was indicated. On February 24, 2004,

ROC submitted a Junction Box Disclosure Form to the NMOCD.

On June 15, 2004, Highlander submitted a work plan for a confirmation borehole and possible monitor well placement at the site. The NMOCD responded with requested revisions to the workplan and on November 3, 2004, Highlander submitted a revised workplan to address NMOCD concerns. The workplan was approved by the NMOCD on November 4, 2004. Highlander supervised the installation of Monitor Well (MW-1) on December 19, 2004. The well was purged and sampled on December 21, 2004. On January 14, 2005, Rice submitted a Notification of Groundwater Impact to the NMOCD. Groundwater has been sampled and analyzed on a quarterly basis. Traces of benzene and ethylbenzene found in the original sampling have not been evident in subsequent sampling events.

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 Stage I Abatement Plan approval was received, dated February 23, 2006.

#### Stage 1 Abatement Plan

As part of the Stage 1 Abatement Plan two additional monitor wells were proposed for the site. These two monitor wells (MW-2 and MW-3) were installed on March 21, 2006. MW-2 was placed down-gradient of MW-1 and MW-3 was placed up-gradient. An oil well location and open reserve pit, were located up-gradient of MW-1, necessitating the placement of MW-3 up-gradient of the open reserve pit. The wells were developed and sampled on March 28, 2006. MW-3 exhibited apparent background chloride concentrations of 96 mg/L. The down-gradient monitor well, (MW-2) displayed similar qualities to the monitor well placed at the removed junction box site (MW-1), with a chloride concentration of 564 mg/L and total dissolved solids of 1,730 mg/L.

Also as part of the Stage I Abatement Plan, a water well database search was performed to encompass a ½ mile radius around the site. The database search revealed one well in Section 1 and 3 wells in adjoining sections to this site. The field inspection revealed processing plant wells up-gradient of the site, one inaccessible well at the "Targa" booster or compressor station (4/10 mile south) and one inactive domestic well with no access (1/2 mile south). An open reserve pit located 135' up-gradient was sampled and had a chloride concentration of 42,286 mg/L.

ROC submitted a report titled "Results of Stage 1 Implementation and Request for Suspension from Rule 19 Requirements", Dated August 10, 2006 to the NMOCD. On September 27, 2006, ROC received a response from the NMOCD. In a telephone conference with the NMOCD, it was discussed that the plan should be re-issued as a Stage 1/Stage 2 Abatement Plan for continued monitoring. Additionally, the NMOCD verbally approved the placement of one additional down-gradient monitoring well. As approved, on October 9, 2006, one additional monitor well (MW-4) was installed down-gradient and constructed according to EPA and industry standards.



#### Stage1/Stage2 Abatement Plan

On December 12, 2006, a Stage1/Stage2 Abatement Plan was submitted to the NMOCD. Based upon the results of the Stage I Abatement Plan implementation, it appears that the water quality at the original junction box site is improving over time. The Stage 1/Stage2 Plan proposed to continue to monitor all four wells on a quarterly basis to ensure continued improvement of groundwater quality.

As part of the Stage 1/Stage 2 Abatement Plan, a Corrective Action Plan (CAP) for final soil remediation was presented. In order to complete horizontal delineation of the soil impact, soil borings will be placed beyond the edges of the existing clay barrier and soil samples will be collected for field chloride testing. Once the results of the delineation are completed, the data will be evaluated to determine if further excavation and extension of clay barrier is warranted. If warranted, the site will be excavated down to a depth of approximately 6' and the existing clay barrier will be extended, prior to backfilling with excavated material. NMOCD approval of this Stage1/Stage2 Abatement Plan is pending.

#### **Monitor Well Sampling**

The monitor wells were samples on a quarterly basis. Prior to sampling, the monitor wells were gauged and approximately three casing volumes of water were purged from the wells 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**

The analysis of up-gradient monitor well, MW-3, has showed background chloride concentrations ranging from 91.4 mg/L to 125 mg/L. The down-gradient monitor well, (MW-2) has displayed similar qualities to the monitor well placed at the removed junction box site (MW-1). The original monitor well (MW-1) has been sampled on a quarterly basis since December 2004 and all monitor wells are sampled on a quarterly basis. The most recent sampling was performed on all four monitor wells on October 30, 2006. Traces of



benzene and ethylbenzene were found in the original two sampling events. In the past seven quarters, BTEX parameters have not been detected at or above reporting limits. Chloride and total dissolved solid concentrations have been declining in MW-1 since the original sampling where chloride was 1,060 mg/L and TDS was 2,660 mg/L, however the most recent sample concentrations in MW-1 are showing some increase in chloride and TDS. Cumulative analytical data is summarized in the Table Section of this report.

#### **Conclusions**

- 1. In 2006, there were no BTEX constituents at or above the New Mexico Water Quality Control Commission (WQCC) standards. In the past seven quarters, BTEX parameters have not been detected at or above reporting limits.
- 2. Chloride and total dissolved solid (TDS) concentrations from monitor well MW-1 have been declining since the original sampling, however, the most recent sample concentrations in MW-1 are showing some increase in chloride and TDS.
- 3. As per an NMOCD request, one additional well will be installed between MW-1 and MW-3, during the 2<sup>nd</sup> quarter of 2007.
- 4. Quarterly monitoring at this site will continue and an annual report will be prepared and submitted to the NMOCD in the first quarter of 2008. As discussed in the Stage 1/Stage 2 Abatement Plan, if conditions do not improve or if they deteriorate, a workplan for additional investigation will be prepared and submitted to the NMOCD.
- 5. In order to complete horizontal delineation of the soil impact, soil borings will be placed beyond the edges of the existing clay barrier and soil samples will be collected for field chloride testing. Once the results of the delineation are completed, the data will be evaluated to determine if further excavation and extension of clay barrier is warranted. If warranted, the site will be excavated down to a depth of approximately 6' and the existing clay barrier will be extended, prior to backfilling with excavated material

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Respectfully Submitted, HIGHLANDER ENVIRONMENTAL CORP.

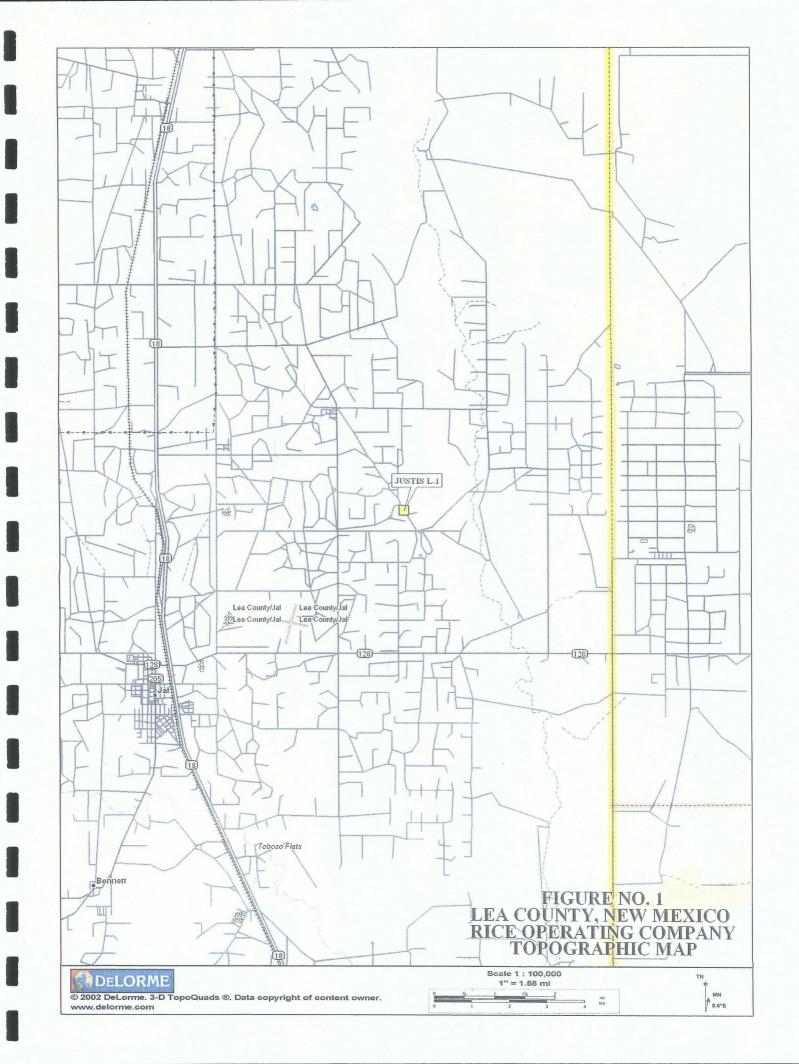
Timothy M. Reed, P.G. Vice President

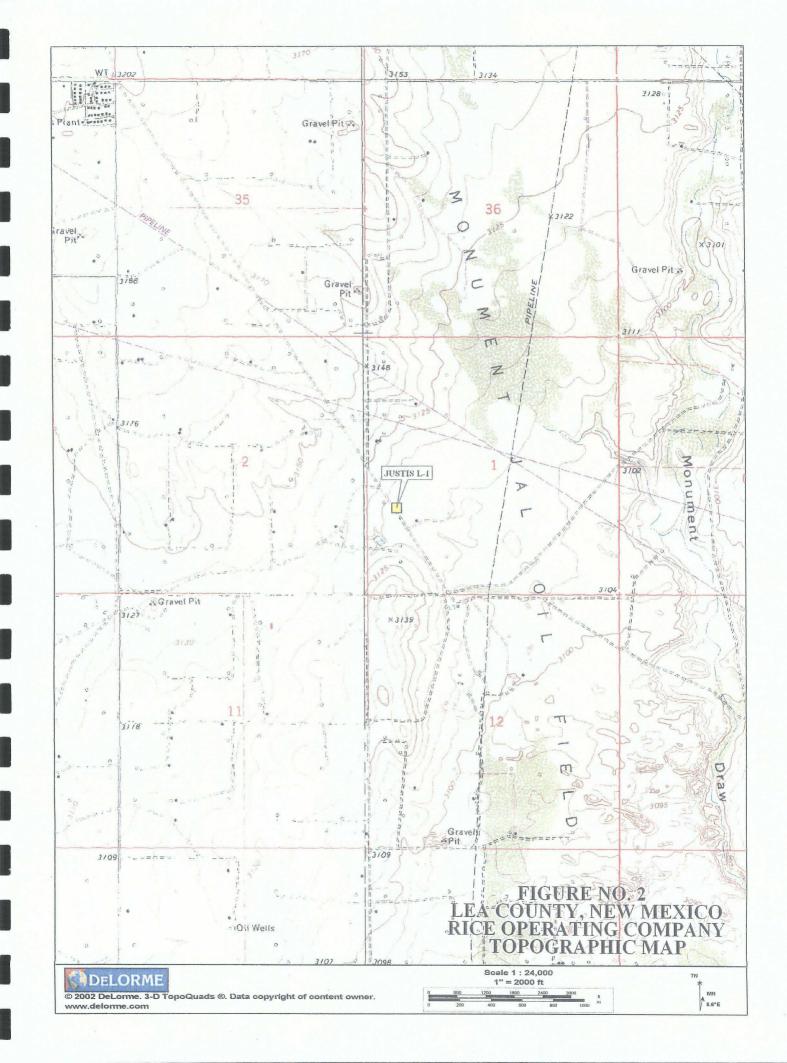
cc: ROC, Edward Hansen – NMOCD Enclosures: Figures, Tables, Laboratory Analysis

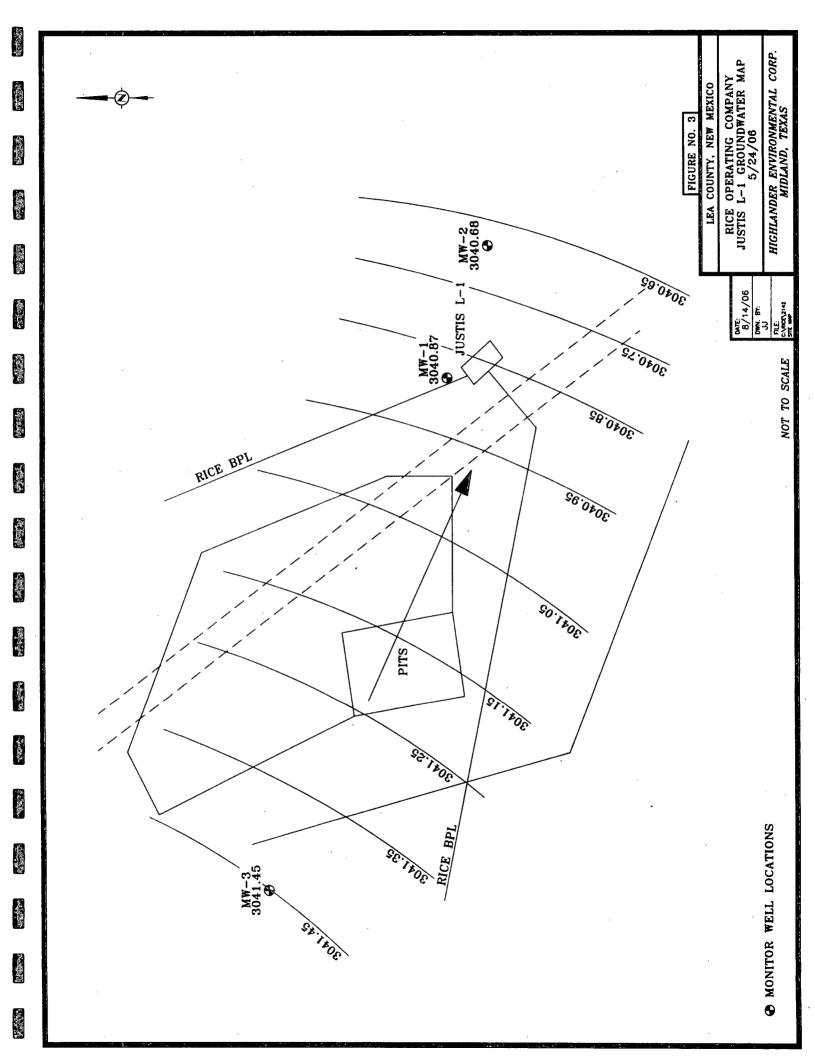


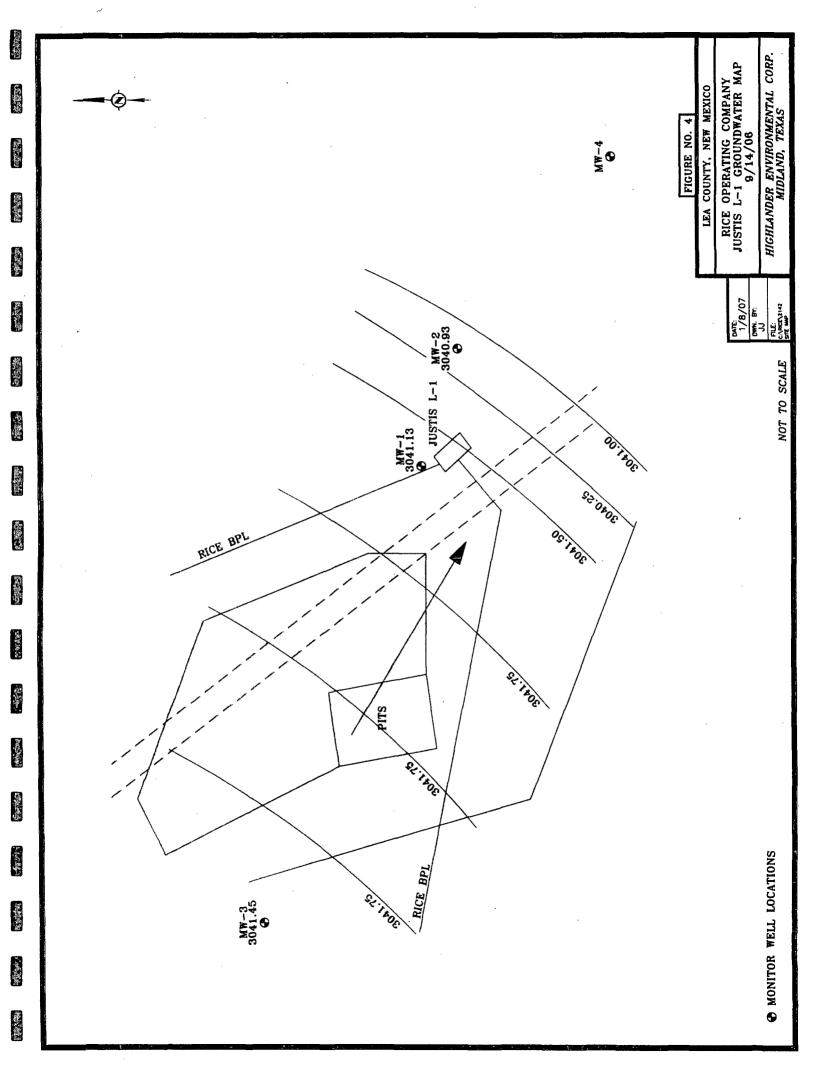
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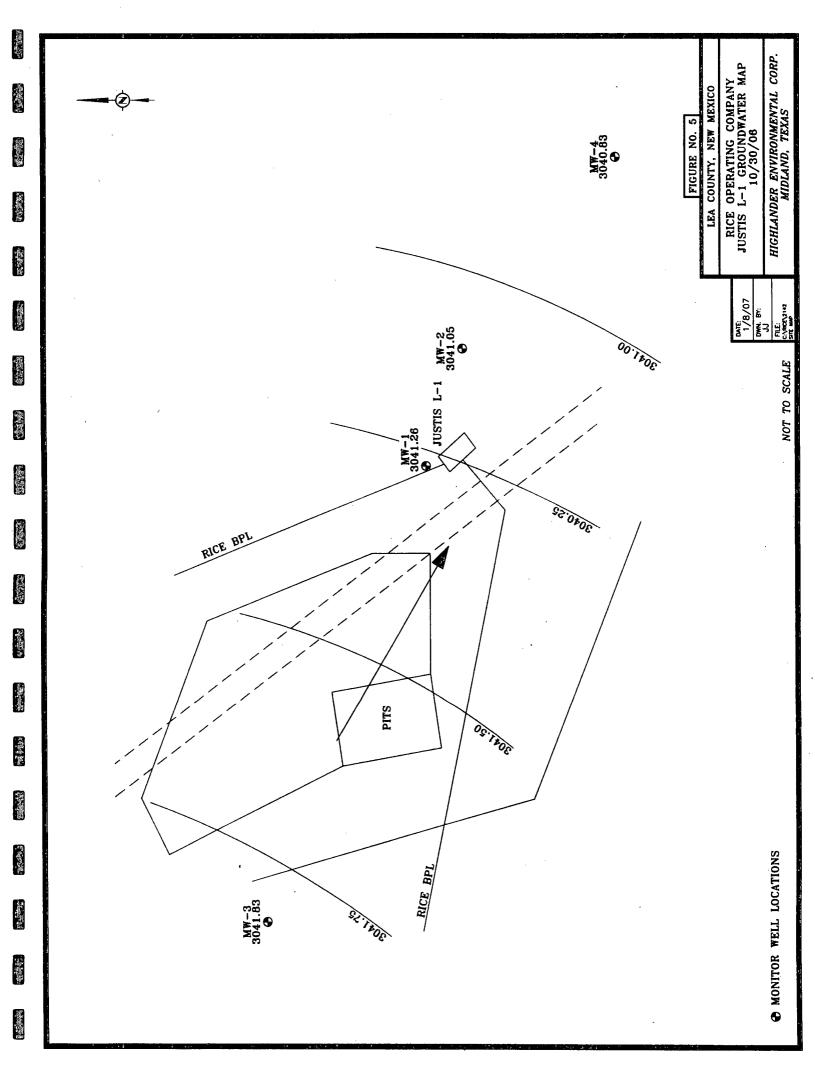
#### **FIGURES**





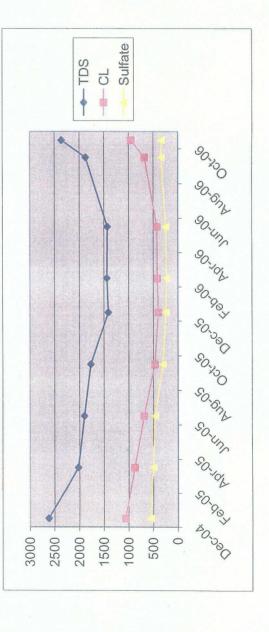




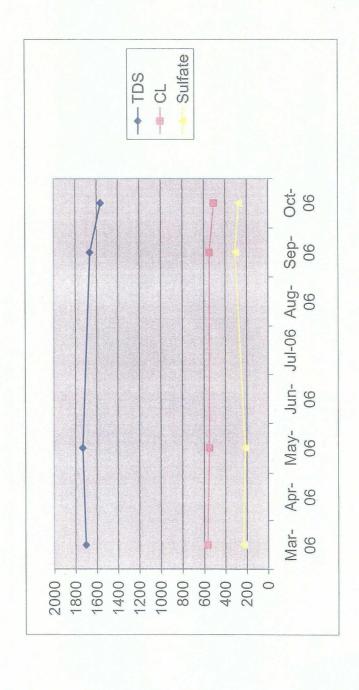


#### **TABLES**

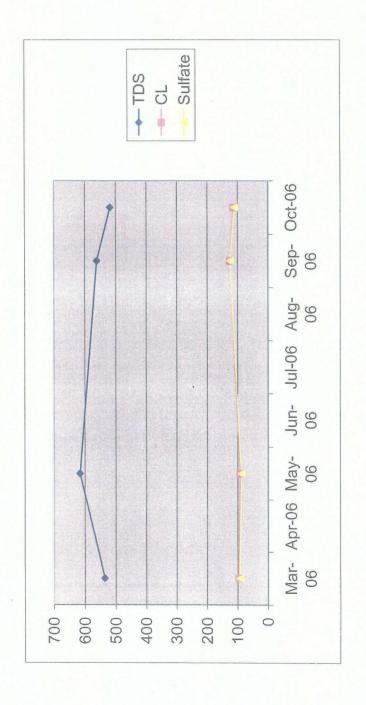
		Comments										339 Clear no odor
		Sulfate		550	502	468	307	245	236	246	339	339
	40	Total Xylenes		<0.001	<0.001	<0.001	<0.001	0.000666	<0.001	<0.001	<0.001	<0.001
		CI TDS Benzene Toluene Ethyl Benzene Total Xylenes Sulfate		0.00209	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Rice Engineering Operating Justice L-1	Lea County, New Mexico	Benzene		0.0158	873 2020 0.000904	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
gineering C Justice L-1	nty, Ne	TDS		2620	2020	1900	1770	390 1410	1440	420   1430	1870	2360
Engir Ju	a Cour	Image: Control of the		1060	873	684	464	390	413		672	943
Rice	Le	Sample	Date	12/21/04   1060   2620   0.0158	03/29/05	06/16/05	09/15/05	12/05/05	02/27/06	05/24/06	09/14/06	10/30/06 943 2360
		Volume	Purged	20	20	20	2.5	$\infty$	∞	10	10	10
		Well	Volume	XXX	XX	XXX	XXX	2.30	2.30	2.30	2.40	2.40
		Total	Depth	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00
		Depth to	Water	78.43	78.19	78.11	77.95	77.80	77.56	77.51	77.25	77.12
		MM		_	~	_	_	-	-	7-	_	-



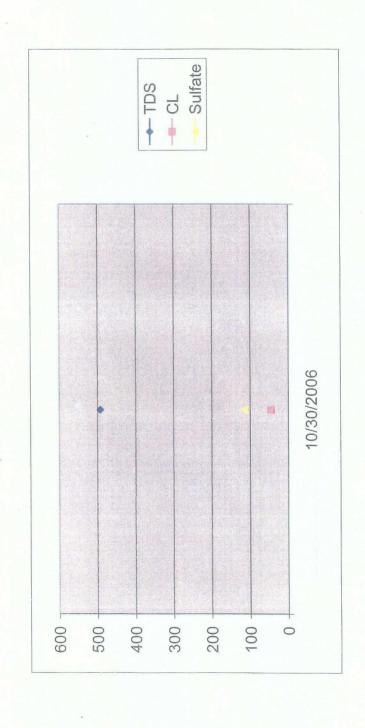
			Comments					275 Clear no odor
			Sulfate		233	215	306	275
			Total Xylenes		<0.001	<0.001	<0.001	<0.001
			CI TDS Benzene Toluene Ethyl Benzene Total Xylenes Sulfate Comments		<0.001	<0.001	<0.001	<0.001
			Toluene		<0.001	<0.001	<0.001	<0.001
Rice Engineering Operating	-7	Lea County, New Mexico	Senzene		<0.001	<0.001	<0.001	<0.001
eering	Justice L-1	nty, Nev	TDS		564 1700	549 1730	546 1660	1560
<b>Engin</b>	Ju	a Cour	Ü		564	549	546	505
Rice		Le	Sample	Date	03/28/06	05/24/06	09/14/06	10/30/06
			Volume	Purged	12	15	10	10
			Well	Vólume	2.50	2.50	2.50	2.60
			Total	Depth	93.05	93.05	93.05	93.05
			Depth to	Water	77.72	77.48	77.23	77.11
			MW		2	2	2	2



			Comments					111 Clear no odor
			Sulfate		93.4	88.3	125	111
			Total Xylenes		<0.001	<0.001	<0.001	<0.001
			CI   TDS   Benzene   Toluene   Ethyl Benzene   Total Xylenes   Sulfate   Comments		<0.001	<0.001	<0.001	<0.001
			Toluene		<0.001	<0.001	<0.001	<0.001
Rice Engineering Operating	~	Lea County, New Mexico	enzene		<0.001	<0.001	<0.001	<0.001
eering	Justice L-1	ity, Nev	TDS E		536	616	299	518
Engin	Ju	a Cour	ū		96.3	91.4	125	114
Rice		Le	Sample	Date	03/28/06 96.3 536	05/24/06 91.4 616	09/14/06	10/30/06 114 518
			Volume	Purged	12	10	10	10
			Well	Volume	2.40	2.40	2.40	2.50
			Total	Depth	93.00	93.00	93.00	93.00
			Depth to	Water	78.21	77.99	77.99	77.61
			MW		co	8	8	3

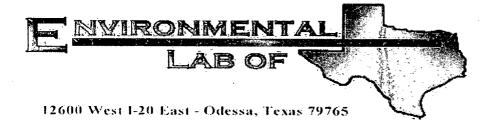


			Comments		115 Clear no odor
			Sulfate		115
			Total Xylenes		<0.001
			CI TDS Benzene Toluene Ethyl Benzene Total Xylenes Sulfate Comments		<0.001
			Toluene		<0.001
Rice Engineering Operating	_	ea County, New Mexico	Senzene		<0.001
eering	Justice L-1	ty, Nev	TDS E		492
<b>Engin</b>	Jus	a Coun	Ö		44.2
Rice		Le	Sample	Date	10/30/06   44.2   492   <0.001   <0.001
			Volume	Purged	10
			Well	Volume	2.00
			Total	Depth	91.24
			Depth to	Water	78.44
			MW		4



#### APPENDIX A

Lab Analysis



# Analytical Report

#### Prepared for:

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

Project: Justis L-1 Vent
Project Number: None Given
Location: Lea County

Lab Order Number: 6C02022

Report Date: 03/15/06

Project: Justis L-1 Vent
Project Number: None Given

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/15/06 14:00

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6C02022-01	Water	02/27/06 16:30	03/02/06 16:05

Project: Justis L-1 Vent

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

Fax: (505) 397-1471

Reported: 03/15/06 14:00

# Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	. Notes
Monitor Well #1 (6C02022-01)	) Water							,	
Benzene	ND	0.00100	mg/L	t	EC60704	03/07/06	03/08/06	EPA 8021B	
Toluene	ND	0.00100	**	н	н	n .	**	u	
Ethylbenzene	ND	0.00100	11	ü	п	u	п	**	
Xylene (p/m)	ND	0.00100	n .	н	**	н	n	11	
Xylene (o)	ND	0.00100	n	н	,,	**	и	n	
Surrogate: a,a,a-Trifluorotoluer	ne	87.8 %	80-	120	n n	"	"	"	
Surrogate: 4-Bromofluorobenze	'ne	90.8 %	80-	120	"	"	n	"	•

Project: Justis L-1 Vent

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

Fax: (505) 397-1471

Reported: 03/15/06 14:00

#### 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 (6C02022-01) Water									
Total Alkalinity	202	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	413	10.0	**	20	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	1440	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160,1	
Sulfate	236	10.0	"	20	EC60320	03/03/06	03/07/06	EPA 300.0	

Project: Justis L-1 Vent

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

Fax: (505) 397-1471

Reported: 03/15/06 14:00

#### Total Metals by EPA / Standard Methods

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6C02022-01) Water									
Calcium	151	0.500	mg/L	50	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	37.9	0.0100	u	10	, III	ч		n	
Potassium	9.05	0.500		н •	**	n	н	u	
Sodium	340	2.00 .	"	200	**	n	ш	"	

Rice Operating Co.

Project: Justis L-1 Vent

Fax: (505) 397-1471

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

Reported: 03/15/06 14:00

#### Organics by GC - Quality Control Environmental Lab of Texas

	D 1	Reporting	** **	Spike	Source	0.000	%REC	555	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC60704 - EPA 5030C (GC)	-				•					
Biank (EC60704-BLK1)				Prepared: 0	3/07/06 A	nalyzed: 03	/08/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	и							
Xylene (p/m)	ND	0.00100	0							
Xylene (0)	ND	0.00100	* u							
Surrogate: a,a,a-Trifluorotoluene	37.1		ug l	40.0		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		98.8	80-120			
LCS (EC60704-BS1)	1			Prepared: 0	3/07/06 A	nalyzed: 03	/08/06			
Benzene	0.0440	0.00100	mg/L	0.0500		88.0	80-120			
Toluene	0.0489	0.00100	**	0.0500		97.8	80-120			
Ethylbenzene	0.0569	0.00100	**	0.0500		114	80-120			
Xylene (p/m)	0.117	0.00100	11	0.100		117	80-120			
Xylene (o)	0.0590	0.00100	u	0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.7		ug I	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	42.3		n	40.0		106	80-120			
Calibration Check (EC60704-CCV1)				Prepared: (	03/07/06 A	.nalyzed: 03	3/09/06			
Benzene	40.1		ug/l	50.0		80.2	80-120			
Toluene	40.8		n	50.0		81.6	80-120			
Ethylbenzene	42.9		п	50.0		85.8	80-120			
Xylene (p/m)	88.4		"	100		88.4	80-120			
Xylene (0)	44.3		"	50.0		88.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.1		"	40.0		85.2	80-120			•
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120			
Matrix Spike (EC60704-MS1)	Sou	ırce: 6C03007-	-06	Prepared: (	)3/07/06 A	nalyzed: 03	3/09/06			
Benzene	0.0403	0.00100	mg/L	0.0500	ND	80.6	80-120			
Toluene	0.0432	0.00100	n	0.0500	ND	86.4	80-120			
Ethylbenzene	0.0464	0.00100	"	0.0500	ND	92.8	80-120			
Xylene (p/m)	0.0971	0.00100	п	0.100	ND	97.1	80-120			
Xylene (0)	0.0476	0.00100	"	0.0500	ND	95.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.4		ug l	40.0		91.0	80-120			
Surrogate: 4-Bromofluorohenzene	43.8		"	40.0		110	80-120			

Project: Justis L-1 Vent

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

Fax: (505) 397-1471

Reported: 03/15/06 14:00

#### 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 EC60704 - EPA 5030C (GC)										
Matrix Spike Dup (EC60704-MSD1)	Sou	rce: 6C03007-	06	Prepared: 0	3/07/06 A	nalyzed: 03	3/09/06			
Benzene	0.0433	0.00100	mg/L	0.0500	ND	86.6	80-120	7.18	20	
Toluene	0.0472	0.00100		0.0500	ND	94.4	80-120	8.85	20	
Ethylbenzene	0.0539	0.00100	"	0.0500	ND	108	80-120	15.1	20	
Xylene (p/m)	0.112	0.00100	"	0.100	ND	112	80-120	14.3	20	
Xylene (o)	0.0541	0.00100	n '	0.0500	ND	108	80-120	12.6	20	
Surrogate: a,a,a-Trifluorotoluene	36.5		ug l	40.0		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	38.0		"	40.0		95.0	80-120			

Rice Operating Co.

Project: Justis L-1 Vent

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

Reported: 03/15/06 14:00

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

#### 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 EC60320 - General Preparation (W	/etChem)					*******		*****		
Blank (EC60320-BLK1)				Prepared:	03/03/06 A	nalyzed: 03	3/07/06			
Chloride	ND	0.500	mg/L	· · · · · · · · · · · · · · · · · · ·						
Sulfate	ND	0.500	"							
LCS (EC60320-BS1)				Prepared:	03/03/06 A	nalyzed: 03	3/07/06			
Sulfate	8.49		mg/L	10.0		84.9	80-120			
Chloride	8.77		'n	10.0		87.7	80-120			
Calibration Check (EC60320-CCV1)				Prepared:	03/03/06 A	nalyzed: 03	3/07/06	•	•	
Chloride	9.37		mg/L	10.0		93.7	80-120			
Sulfate	9.44		н	10.0		94.4	80-120			
Duplicate (EC60320-DUP1)	Sou	rce: 6C02021-	-03	Prepared:	03/03/06 A	nalyzed: 03	3/07/06			
Chloride	27.1	5.00	mg/L		26.8			1.11	20	
Sulfate	124	5.00	u		123			0.810	20	
Batch EC60607 - General Preparation (V	VetChem),	_								
Blank (EC60607-BLK1)		-		Prepared:	03/03/06 A	nalyzed: 0.	3/06/06			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EC60607-DUP1)	Sou	rce: 6C02020	-01	Prepared:	03/03/06 A	nalyzed: 03	3/06/06			
Total Dissolved Solids	524	5,00	mg/L		538			2.64	5	
Duplicate (EC60607-DUP2)	Sou	rce: 6C02021	-03	Prepared:	03/03/06 A	nalyzed: 0	3/06/06			
Total Dissolved Solids	570	5.00	mg/L		562		,	1.41	5	

Rice Operating Co. 122 W. Taylor

Project: Justis L-1 Vent

Fax: (505) 397-1471

Hobbs NM, 88240

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

Reported: 03/15/06 14:00

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

		Reporting		Spike	Source		%REC		RPD	<u>.</u>
Analyte	Result	Limit	Units	Level	Result	%REC .	Limits	RPD	Limit	Notes
Batch EC60905 - General Preparatio	n (WetChem)						-			
Blank (EC60905-BLK1)				Prepared &	Analyzed:	03/09/06				
Total Alkalinity	ND	- 2,00	mg/L							
LCS (EC60905-BS1)				Prepared &	Analyzed:	03/09/06				
Bicarbonate Alkalinity	216	2.00	mg/L	200		108	85-115	_		
Duplicate (EC60905-DUP1)	Sou	rce: 6C02020-	01	Prepared &	Analyzed:	03/09/06				
Total Alkalinity	195	2.00	mg/L		194			0.514	20	
Reference (EC60905-SRM1)				Prepared &	k Analyzed:	03/09/06				
Total Alkalinity	97.0		mg/L	100		97.0	90-110			

Rice Operating Co.

Project: Justis L-1 Vent

Fax: (505) 397-1471

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

Reported: 03/15/06 14:00

#### Total Metals 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 EC60711 - 6010B/No Digestion										
Blank (EC60711-BLK1)				Prepared &	Analyzed:	: 03/07/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500	. "							
Sodium	ND	0.0100	ш							
Calibration Check (EC60711-CCV1)			•	Prepared &	Analyzed	: 03/07/06				
Calcium	2.04		mg/L	2.00		102	85-115			
Magnesium	2.09		**	2.00		104	85-115			
Potassium	1.90		۳,	2.00		95.0	85-115			
Sodium	1.85		**	2.00		92.5	85-115			
Duplicate (EC60711-DUP1)	Sou	rce: 6C02020-	-01	Prepared &	k Analyzed	: 03/07/06				
Calcium	73.7	0.100	mg/L		72.7			1.37	20	
Magnesium	15.8	0.0100			15.2			3.87	20	
Potassium	3,61	0.0500	0		3.71			2.73	20	
Sodium	37.6	0.100	0		37.2			1.07	20	

Rice Operating Co.Project:Justis L-1 VentFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope03/15/06 14:00

#### Notes and Definitions

DET Analyte DETECTED ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported Sample results reported on a dry weight basis dry RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

t Approved By:	Kaland KJulis	Date:
LADDIOVEGEDY.		Date.

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.

Repor

3/15/2006

# Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

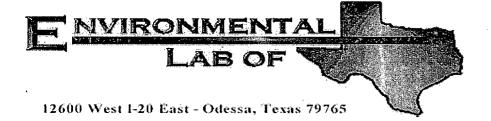
12600 West I-20 East Odessa, Texas 79765

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

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	Company Name RICE Operating Company	ē	cityistateizip: Hobbs, New Mexico 88240		Sampler Signature: Rozanne Johnson (505) 631-9310	Email: rozanne@valornet com	5													PLEASE Email RESULTS TO:					
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Project Manager: Kristin Farris Pope	npar	Company Address: 122 W. Taylor Street	ity/S	Telephone No: (505) 393-9174	r Si				AN # Habilise only							:			1	Special Instructions:		1 TH	H		
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# Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

V: 00 - 0-					
lient: KICL () P.					
( )					
Pate/Time: 3/2/01/2 110:05					
Order #: 1,002022					
7,00					
nitials:					
mids.					
Sample Receipt	Checkli	st			
emperature of container/cooler?	Yes	No I	-1.0	CI	
Shipping container/cooler in good condition?	¥€§	No			
Custody Seals intact on shipping container/cooler?	<u> </u>	No	Not preser	nt i	
Custody Seals intact on sample bottles?	Vēs,	No	Not preser		
Chain of custody present?	Yes	No			
Sample Instructions complete on Chain of Custody?	Yas	No			
Chain of Custody signed when relinquished and received?	Xes	No		i	
Chain of custody agrees with sample label(s)	Yes,	No			
Container labels legible and intact?	(SE2)	No			
Sample Matrix and properties same as on chain of custody?	YES	No		<del></del> ;	
Samples in proper container/bottle?	YES	No			
Samples properly preserved?	X	No			
Sample bottles intact?	XES	No			
Preservations documented on Chain of Custody?	<u>₩</u>	No			
Containers documented on Chain of Custody?	(7/a)s	No		<del></del>	
Sufficient sample amount for indicated test?	(F.325	No			
All samples received within sufficient hold time?	YS	No		<u> </u>	
VOC samples have zero headspace?	(8)	No	Not Apolica	able i	
Samples not fozen.					
Variance Docu Contact Person: Date/Time: Regarding:			•		
Corrective Action Taken:					
					·
		~			



### Analytical Report

#### Prepared for:

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

Project: Justis Jct. L-1 Vent
Project Number: None Given
Location: Lea County

Lab Order Number: 6C29006

Report Date: 04/06/06

Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

Reported: 04/06/06 14:01

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #2	6C29006-01	Water	03/28/06 09:20	03/29/06 13:40
Monitor Well #3	6C29006-02	Water	03/28/06 10:55	03/29/06 13:40

Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

Reported: 04/06/06 14:01

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C29006-01) Water							_		
Benzene	ND	0.00100	mg/L	1	EC63016	03/30/06	03/31/06	EPA 8021B	
Toluene	ND	0.00100	11	н	и	11	n	"	
Ethylbenzene	ND	0.00100	"	11	n	tt	"	"	
Xylene (p/m)	ND	0.00100	и	н	n	n	п	"	
Xylene (o)	ND	0.00100	"	11	и	. "	"	n	
Surrogate: a,a,a-Trifluorotoluene		80.8 %	80-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	80-1.	20	"		n	u .	
Monitor Well #3 (6C29006-02) Water									
Benzene	ND	0.00100	mg/L	1	EC63016	03/30/06	03/31/06	EPA 8021B	
Toluene	ND	0.00100	"	u	II .	"	и	n .	
Ethylbenzene	ND	0.00100	и		II.	"	u	n .	
Xylene (p/m)	ND	0.00100	n		u	"	*1	п	•
Xylene (o)	ND	0.00100		11	u	**	· ·	"	
Surrogate: a,a,a-Trifluorotoluene		80.2 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		87.5 %	80-1	20	"	"	"	n	

Project: Justis Jct. L-1 Vent

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 04/06/06 14:01

## 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 (6C29006-01) Water									-
Total Alkalinity	177	2.00	mg/L	ı	ED60315	04/03/06	04/03/06	EPA 310.1M	-
Chloride	564	10.0		20	ED60306	03/31/06	04/03/06	EPA 300.0	
<b>Total Dissolved Solids</b>	1700	5,00	"	1	EC63019	03/29/06	03/30/06	EPA 160.1	
Sulfate	233	10.0		20	ED60306	03/31/06	04/03/06	EPA 300.0	
Monitor Well #3 (6C29006-02) Water									
Total Alkalinity	156	2.00	mg/L	1	ED60315	04/03/06	04/03/06	EPA 310.1M	
Chloride	96.3	5.00	"	10	ED60306	03/31/06	04/03/06	EPA 300.0	
Total Dissolved Solids	536	5.00	**	1	EC63019	03/29/06	03/30/06	EPA 160.1	
Sulfate	93.4	5.00	"	10	ED60306	03/31/06	04/03/06	EPA 300.0	

122 W. Taylor Hobbs NM, 88240 Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

Reported: 04/06/06 14:01

#### Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C29006-01) Water									
Calcium	194	0.500	mg/L	50	EC63112	03/31/06	03/31/06	EPA 200.7	
Magnesium	48.1	0.0100	n	10	u	и	D		
Potassium	10.2	0.500	н	"	11	и	41	**	
Sodium	274	2.00	"	200	**	ŧŧ	***	u	
Monitor Well #3 (6C29006-02) Water									
Calcium	70.2	0.100	mg/L	10	EC63112	03/31/06	03/31/06	EPA 200.7	
Magnesium	23.1	0.0100	n	"	ч	n	II.	11	
Potassium	3,93	0.500	п	. "	п	u u	tt	н	
Sodium	62.9	0.500	"	50	**	u ·	11	II .	

Project: Justis Jct. L-1 Vent

Fax: (505) 397-1471

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

Reported: 04/06/06 14:01

#### 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 EC63016 - EPA 5030C (GC)										
Blank (EC63016-BLK1)				Prepared &	Analyzed	: 03/30/06		•		
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	33.8		ug·l	40.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			
LCS (EC63016-BS1)				Prepared &	. Analyzed	: 03/30/06				
Benzene	0.0405	0.00100	mg/L	0.0500	_	81.0 .	80-120			
Toluene	0.0441	0.00100	"	0.0500		88.2	80-120			
Ethylbenzene	0.0593	0.00100		0.0500		119	80-120			
Xylene (p/m)	0.102	0.00100	н	0.100		102	80-120		•	
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.4		ug4	40.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			
Calibration Check (EC63016-CCVI)				Prepared: (	)3/30/06 A	nalyzed: 0.	3/31/06			
Benzene	45.1		ug/l	50.0		90.2	80-120			
Toluene	41.8	*	ч	50.0		83.6	80-120			
Ethylbenzene	46,8		. "	50.0		93.6	80-120			
Xylene (p/m)	95.9		11	100		95.9	80-120			
Xylene (o)	47.5		и	50.0		95.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.7		"	40.0	:	99.2	80-120			
Surrogate: 4-Bromofluorohenzene	35.1		"	40.0		87.8	80-120			
Matrix Spike (EC63016-MS1)	Sou	ırce: 6C24010-	-02	Prepared: (	03/30/06 A	nalyzed: 0	3/31/06			
Benzene	0.0450	0.00100	mg/L	0.0500	ND	90.0	80-120			
Toluene	0.0429	0.00100	n .	0.0500	ND	85.8	80-120			
Ethylbenzene	0.0491	0.00100	w	0.0500	ND	98.2	80-120			
Xylene (p/m)	0.0999	0.00100		0.100	ND	99.9	80-120			
Xylene (o)	0.0492	0.00100	п	0.0500	ND	98.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.1		ug I	40.0		87.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

Surrogate: 4-Bromofluorobenzene

Project: Justis Jct. L-1 Vent

Project Number: None Given

Project Manager: Kristin Farris-Pope

40.0

86.2

80-120

Fax: (505) 397-1471

Reported: 04/06/06 14:01

#### 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 EC63016 - EPA 5030C (GC)										
Matrix Spike Dup (EC63016-MSD1)	Sour	rce: 6C24010-	-02	Prepared: 0	)3/30/06 A	nalyzed: 03	3/31/06			
Benzene	0.0433	0.00100	mg/L	0.0500	ND	86.6	80-120	3.85	20	
Toluene	0.0415	0.00100	n	0.0500	ND	83.0	80-120	3.32	20	
Ethylbenzene	0.0475	0.00100	**	0.0500	ND	95.0	80-120	3.31	20	
Xylene (p/m)	0.0971	0.00100	"	0.100	ND	97.1	80-120	2.84	20	
Xylene (o)	0.0475	0.00100	n	0.0500	ND	95.0	80-120	3.52	. 20	
Surrogate: a,a,a-Trifluorotoluene	43.1		ug l	40.0		108	80-120			

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Project: Justis Jct. L-1 Vent

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Reported: 04/06/06 14:01

#### 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 EC63019 - General Preparation (	WetChem)					- 10 . 10				
Blank (EC63019-BLK1)				Prepared: 0	3/29/06 A	nalyzed: 03	/30/06			
Total Dissolved Solids	ND	5.00	mg/L			,				
Duplicate (EC63019-DUP1)	Sou	rce: 6C29006-	01	Prepared: 0	3/29/06 A	nalyzed: 03	/30/06			
Total Dissolved Solids	1660	5.00	mg/L		1700			2.38	5	
Batch ED60306 - General Preparation (	WetChem)									
Blank (ED60306-BLK1)				Prepared &	Analyzed:	: 04/03/06				
Sulfate	ND	0.500	mg/L			_				
Chloride	ND	0.500	11							
LCS (ED60306-BS1)				Prepared &	Analyzed:	04/03/06				
Chloride	8.69		mg/L	10.0		86.9	80-120			
Sulfate	9.44		n n	10.0		94.4	80-120			
Calibration Check (ED60306-CCV1)				Prepared &	Analyzed:	: 04/03/06				
Sulfate	9.95		mg/L	10.0		99.5	80-120			
Chloride	9.04		n	10.0		90.4	80-120			
Duplicate (ED60306-DUP1)	Sou	rce: 6C29006-	-01	Prepared &	Analyzed	: 04/03/06				
Sulfate	211	10.0	ıng/L		233			9.91	20	
Chloride	570	10.0			564			1.06	20	
Batch ED60315 - General Preparation (	WetChem)									
Blank (ED60315-BLK1)				Prepared &	Analyzed	: 04/03/06				
Total Alkalinity	ND	2.00	mg/L							

Project: Justis Jct. L-1 Vent

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 04/06/06 14:01

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

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

Duplicate (ED60315-DUP1)	Source	: 6C29006-		Prepared & Ana	llyzed: 04/03/06				
Total Alkalinity	176	2.00	mg/L	1	77		0.567	20	
Reference (ED60315-SRM1)				Prepared & Ana	lyzed: 04/03/06				
Total Alkalinity	98.0		mg/L	100	98.0	90-110			

Project: Justis Jct. L-1 Vent

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

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

Reported: 04/06/06 14:01

#### 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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC63112 - 6010B/No Digestion										
Blank (EC63112-BLK1)				Prepared &	k Analyzed:	03/31/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	ii							
Sodium :	ND	0.0100	п							
Calibration Check (EC63112-CCV1)		•		Prepared &	& Analyzed	03/31/06				
Calcium	1.85		mg/L	2.00		92.5	85-115			
Magnesium	1.84		u	2.00		92.0	85-115			
Potassium	1.76		**	2.00		88.0	85-115			
Sodium	1.74		"	2.00		87.0	85-115	•		
Duplicate (EC63112-DUP1)	Sou	rce: 6C23007-	-01	Prepared &	& Analyzed	: 03/31/06				
Calcium	145	0.500	mg/L		147			1.37	20	
Magnesium	94.1	0.0500	"		93.9			0.213	20	
Potassium	30.2	0.500	0		29.7		1	1.67	20	
Sodium	483	2.00	и		490			1.44	20	

Rice Operating Co.ProjectJustis Jct. L-1 VentFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope04/06/06 14:01

#### **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 Julia		
Report Approved By:	Kacan C 13-	Date:	4/6/2006

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

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12600 West i-20 East Odessa, Texas 79765

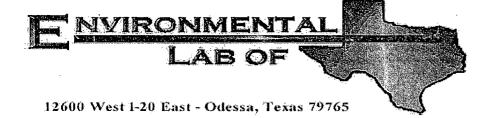
Phone: 432-563-1800 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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kpriceswd@valomet.com					9310			NA NA	Dalqring2 aisc	3/28/2006	3/28/2006									<ol> <li>kpriceswd@valornet.com &amp; mfranks@riceswd.com</li> </ol>	Received by:	Received by ELOT:
kprices	Company Name RICE Operating Company		city/state/zip: Hobbs, New Mexico 88240	-	Sampler Signature: Rozanne Johnson (505) 631-93															PLEASE Email RESULTS TO:	Time	
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## Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

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Sample Recei	nt Checkli	st.		,
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istody Seals intaction shipping container/cooler?	1 123	Nio	fict present	•
istody Seals intection sample bottles?	193	No I	fict present	·
nain of custody present?	Yes	No	100	
imple Instructions complete on Chain of Custody?	1	No		
hain of Custody signed when relinquished and received?	E.S.	1 No 1		•
nain of custody agrees with sample label(s)	1 /53	Ng		•
entainer labels legible and intact?	1 453	No		- 1
ample Matrix and properties same as on chain of custody?	1 / 30	No		=
amples in procer container/bottle?	1 (2)	l No l		•
amoles properly preserved?	1 7/29	) No		_
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reservations documented on Chain of Custody?	1 163	] No		l .
entainers documented on Chain of Custody?	1/2	No		
afficient sample amount for indicated test?		1 No 1	18 Maria	_
of samples received within sufficient hold time?	Yes	1 No		~.
/OC,samples have zero headspace?		No	Not Applicable	
Other observations:				
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Variance Do	scumentat	ion:		
Contact Person: Date/Time: _	· · · · · · · · · · · · · · · · · · ·		_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: Justis Jct. L-1 Vent
Project Number: None Given
Location: Lea County

Lab Order Number: 6E25009

Report Date: 06/05/06

Rice Operating Co.Project:Justis Jct. L-1 VentFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope06/05/06 14:46

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6E25009-01	Water	05/24/06 07:45	05/25/06 10:50
Monitor Well #2	6E25009-02	Water	05/24/06 08:35	05/25/06 10:50
Monitor Well #3	6E25009-03	Water	05/24/06 09:40	05/25/06 10:50

Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

Reported: 06/05/06 14:46

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

<u></u>									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (6E25009-01) Water								•	
Total Alkalinity	214	2.00	mg/L	1	EE63019	06/01/06	06/01/06	EPA 310,1M	-
Carbonate Alkalinity	ND	0.100	n	н	"	ii .	"	и	
Bicarbonate Alkalinity	ND	2.00	**	11	u	"	n.	**	
Hydroxide Alkalinity	ND	0.100	"	п	"	"	0	"	
Chloride	420	12.5	"	25	EE63012	05/30/06	05/30/06	EPA 300.0	,
Total Dissolved Solids	1430	5.00	" '	1	EE63017	05/25/06	05/26/06	EPA 160.1	
Sulfate	246	12.5	"	25	EE63012	05/30/06	05/30/06	EPA 300.0	
Monitor Well #2 (6E25009-02) Water									
Total Alkalinity	200	2.00	mg/L	1	EE63019	06/01/06	06/01/06	EPA 310.1M	
Carbonate Alkalinity	ND	0.100	"	II	**	**	II.	n n	
Bicarbonate Alkalinity	ND	2.00	n '	и	**	• "	**	Ħ	
Hydroxide Alkalinity	ND	0.100	u	"	n .	II .	11	**	
Chloride	549	12.5	**	25	EE63012	05/30/06	05/30/06	EPA 300.0	
Total Dissolved Solids	1730	5.00	"	1	EE63017	05/25/06	05/26/06	EPA 160.1	
Sulfate	215	12.5	и	25	EE63012	05/30/06	05/30/06	EPA 300.0	
Monitor Well #3 (6E25009-03) Water									
Total Alkalinity	150	2.00	mg/L	1	EE63019	06/01/06	06/01/06	EPA 310.1M	
Carbonate Alkalinity	ND	0.100	n .	***		п	"	"	
Bicarbonate Alkalinity	ND	2.00	u u	**		и	п	II	
Hydroxide Alkalinity	ND	0.100	"	. "	u	и	Ħ	u	
Chloride	91.4	5.00	,,	10	EE63012	05/30/06	05/30/06	EPA 300.0	
Total Dissolved Solids	616	5.00	n	1	EE63017	05/25/06	05/26/06	EPA 160.1	
Sulfate	88,3	5.00	"	10	EE63012	05/30/06	05/30/06	EPA 300.0	

Project: Justis Jct. L-1 Vent

Fax: (505) 397-1471

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

Reported: 06/05/06 14:46

#### Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6E25009-01) Water						· · · · · · · · · · · · · · · · · · ·			
Calcium	139	0.500	mg/L	50	EE63023	05/30/06	05/30/06	EPA 6010B	
Magnesium	47.3	0.0100	rr	10	н	и	tt	n	
Potassium	6.52	0.500	11	**	· (tr	n	н	ш	
Sodium	269	0.500	ш	50	n	n	<b>n</b> .	Н	
Monitor Well #2 (6E25009-02) Water									
Calcium	173	0.500	mg/L	50	EE63023	05/30/06	05/30/06	EPA 6010B	
Magnesium	54.7	0.0100	• и	10	"	и	u	**	
Potassium	8.04	0.500	**	"	п	**	*		
Sodium	302	0,500	" .	50	**	н	W	п	
Monitor Well #3 (6E25009-03) Water									
Calcium	70.8	0.100	mg/L	10	EE63023	05/30/06	05/30/06	EPA 6010B	
Magnesium	24.2	0.0100	II .	"	"	и	и	**	
Potassium	3.87	0.500	"	n	ıı .	n	В	и	
Sodium	64.3	0.100	*1	**	**	**	ч	**	

Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

Reported: 06/05/06 14:46

#### Volatile Organic Compounds by EPA Method 8260B Environmental Lab of Texas

		Reporting			,			-	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6E25009-01) Water									
Benzene	ND	1.00	ug/l	1	EF60104	05/31/06	06/01/06	EPA 8260B	
Toluene	ND	1.00	11	11	п	n		ш	
Ethylbenzene	ND	1.00	п	n n	••	q	**	**	
Xylene (p/m)	ND	1.00	n	11	n	u	p	11	,
Xylene (o)	ND	1.00	п	#	н	"		u	
Surrogate: Dibromofluoromethane		98.0 %	68-1.	29	n	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		83.0 %	72-1.	32	"	"	"	и	
Surrogate: Toluene-d8		91.6%	74-1	18	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	65-1-	40	"	n	"	"	
Monitor Well #2 (6E25009-02) Water									
Benzene	ND	1.00	ug/l	1	EF60104	05/31/06	06/01/06	EPA 8260B	
Toluene	ŃD	1.00	и	н	"	n	u	н	
Ethylbenzene	ND	1.00	"	0	н	"	"	ш	
Xylene (p/m)	ND	1.00	n	**	п	**	"	17	
Xylene (o)	ND	1.00	ıı .	н	"	n	u	**	
Surrogate: Dibromofluoromethane		109 %	68-1	29	"	"	"	u	
Surrogate: 1,2-Dichloroethane-d4		89.8 %	72-1	32	"	"	"	n .	
Surrogate: Toluene-d8		96.8 %	74-1	18	,,	n	"	п	
Surrogate: 4-Bromofluorobenzene		86.4 %	65-1	40	n	"	n	n	•
Monitor Well #3 (6E25009-03) Water									
Benzene	ND	1.00	ug/l	ı	EF60104	05/31/06	06/01/06	EPA 8260B	
Toluene	ND	1.00	11	u	††		и	ш	•
Ethylbenzene	ND	1.00	**	п	19	"	"	**	
Xylene (p/m)	ND	1.00	н	**	u	**	"	n	
Xylene (o)	ND	1.00	u	н		п	Ü	"	
Surrogate: Dibromofluoromethane		104 %	68-1	29	"	"	n	"	
Surrogate: 1,2-Dichloroethane-d4		87.0 %	72-1	32	n	"	n	"	
Surrogate: Toluene-d8		94.0 %	74-1	18	"	n	n	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	65-1	40	"	n	"	"	

Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

Reported: 06/05/06 14:46

## 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 EE63012 - General Preparation (W	VetChem)									
Blank (EE63012-BLK1)				Prepared &	Ł Analyzed:	05/30/06			·- <u>-</u>	
Sulfate	ND ·	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EE63012-BS1)				Prepared &	Analyzed:	05/30/06				
Chloride	9.89	0.500	mg/L	10.0		98.9	80-120			
Sulfate	8.10	0.500	"	10.0		81.0	80-120			
Calibration Check (EE63012-CCV1)				Prepared &	k Analyzed:	05/30/06				
Chloride .	9.82		mg/L	10.0	-	98.2	80-120			
Sulfate	8.15		"	10.0		81.5	80-120			
Duplicate (EE63012-DUP1)	Sou	rce: 6E25009-	01	Prepared &	k Analyzed:	05/30/06				
Sulfate	248	12.5	mg/L		246			0.810	20	
Chloride	425	12.5	"		420			1.18	20	
Matrix Spike (EE63012-MS1)	Sou	rce: 6E25009-	01	Prepared &	k Analyzed:	05/30/06				
Chloride	736	12.5	mg/L	250	420	126	80-120			S-0
Sulfate	439	12.5	н	250	246 -	77.2	80-120			S-0°
Batch EE63017 - Filtration Preparation										
Blank (EE63017-BLK1)				Prepared:	05/25/06 A	nalyzed: 05	5/26/06			
Total Dissolved Solids	ND	5.00	ıng/L							
Duplicate (EE63017-DUP1)	Sou	ırce: 6E25009-	-01	Prepared:	05/25/06 A	nalyzed: 0:	5/26/06			
Total Dissolved Solids	1410	5.00	mg/L		1430			1.41	5	

Rice Operating Co.. ProjectJustis Jct. L-1 VentFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope06/05/06 14:46

### 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 EE63019 - General Preparation (We	(Chem									
Blank (EE63019-BLK1)				Prepared &	Analyzed:	06/01/06				
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	"							
Bicarbonate Alkalinity	ND	2.00	u							
LCS (EE63019-BS1)				Prepared &	k Analyzed:	06/01/06		•		
Bicarbonate Alkalinity	216	2.00	mg/L	200		108	85-115			
Duplicate (EE63019-DUP1)	Sou	rce: 6E25009-	01	Prepared &	k Analyzed:	06/01/06				
Total Alkalinity	213	2.00	mg/L		214			0.468	20	
Reference (EE63019-SRM1)				Prepared 8	z Analyzed:	06/01/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

Reported: 06/05/06 14:46

#### Total Metals 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 EE63023 - 6010B/No Digestion										
Blank (EE63023-BLK1)				Prepared &	Analyzed:	05/30/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	19							
Sodium	ND	0.0100	"							
Calibration Check (EE63023-CCV1)				Prepared &	k Analyzed:	: 05/30/06				
Calcium	2.15		mg/L	2.00		108	85-115			
Magnesium	2.25		11	2.00		112	85-115			
Potassium	1.90		**	2.00		95.0	85-115			
Sodium	1.93		"	2.00		96.5	85-115			
Duplicate (EE63023-DUP1)	Sou	rce: 6E24005-	-01	Prepared &	k Analyzed	: 05/30/06				
Calcium	105	0,500	mg/L		108			2.82	20	
Magnesium	44.8	0.0100			43.7			2.49	20	
Potassium	10,3	0.500	11		11.1			7.48	20	
Sodium	266	0.500			260			2.28	20	

Project: Justis Jct. L-1 Vent

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 06/05/06 14:46

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF60104 - EPA 5030C (GCMS)										
Blank (EF60104-BLK1)				Prepared &	k Analyzed:	05/31/06				
Benzene	ND	1.00	ug/l							
Toluene	ND	1.00	н							
Ethylbenzene	ND	1.00	11							
Xylene (p/m)	ND	1.00	п							
Xylene (o)	ND	1.00	"							
Surrogate: Dibromofluoromethane	53.2		"	50.0		106	68-129			
Surrogate: 1,2-Dichloroethane-d4	47.3		"	50.0		94.6	72-132			
Surrogate: Toluene-d8	45.4		"	50.0		90.8	74-118			
Surrogate: 4-Bromofluorobenzene	40.7		"	50.0		81.4	65-140			
LCS (EF60104-BS1)				Prepared:	05/31/06 A	nalyzed: 06	5/01/06			
Benzene	25.0	1.00	ug/l	25.0		100	70-130			
Toluene	25.5	1.00	**	25.0		102	70-130			
Ethylbenzene	25.8	1.00	ч	25.0		103	70-130			
Xylene (p/m)	47.4	1.00	π	50.0		94.8	70-130			
Xylene (o)	25.2	1.00	0	25.0		101	70-130			
Surrogate: Dibromofluoromethane	49.6		"	50.0		99.2	68-129			
Surrogate: 1,2-Dichloroethane-d4	46.0		"	50.0		92.0	72-132			
Surrogate: Toluene-d8	45.9		,,	50.0	÷	91.8	74-118			
Surrogate: 4-Bromofluorohenzene	41.6		"	50.0		83.2	65-140			
Calibration Check (EF60104-CCV1)				Prepared:	05/31/06 A	nalyzed: 06	5/01/06			
Toluene	46.1		ug/l	50.0		92.2	70-130			
Ethylbenzene	39.0		"	50.0		78.0	70-130			
Surrogate: Dibromofluoromethane	48.2		".	50.0		96.4	68-129			
Surrogate: 1,2-Dichloroethane-d4	43.1		"	50.0		86.2	72-132			
Surrogate: Toluene-d8	45.2		"	50.0		90.4	74-118			
Surrogate: 4-Bromofluorohenzene	39.4		"	50.0		78.8	65-140			

Project: Justis Jct. L-1 Vent

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 06/05/06 14:46

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC			
Analyte .	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF60104 - EPA 5030C (GCMS)										
Matrix Spike (EF60104-MS1)	Sourc	e: 6E25011-	01	Prepared: 0	05/31/06 A	nalyzed: 06	/01/06			
Benzene	23.8	1.00	ug/l	25.0	ND	95.2	80-120			
Toluene	24.1	1.00	**	25.0	ND	96.4	80-120			
Ethylbenzene	24.8	1.00	**	25.0	ND	99.2	80-120			
Xylene (p/m)	45.3	1.00	11	50.0	ND	90.6	80-120			
Xylene (o) .	24.2	1.00	"	25.0	ND	96.8	80-120			
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	68-129			
Surrogate: 1,2-Dichloroethane-d4	44.5		n	50.0		89.0	72-132			
Surrogate: Toluene-d8	45.4		"	50.0		90.8	74-118			
Surrogate: 4-Bromofluorobenzene	40.5		"	50.0		81.0	65-140			
Matrix Spike Dup (EF60104-MSD1)	Sour	e: 6E25011-	01	Prepared: (	05/31/06 A	nalyzed: 06	5/01/06			
Benzene	25.2	1.00	ug/l	25.0	ND	101	80-120	5.71	20	
Toluene	25.7	1.00	11	25.0	ND	103	80-120	6.43	20	
Ethylbenzene	26.1	1.00		25.0	ND	104	80-120	5.11	20	
Xylene (p/m)	47.2	- 1.00	*1	50.0.	ND	94.4	80-120	4.11	20	
Xylene (o)	25.4	1.00	#	25.0	ND	102	80-120	4.84	20	
Surrogate: Dibromofluoromethane	46.4		"	50.0		92.8	68-129			
Surrogate: 1,2-Dichloroethane-d4	42.9		"	50.0		85,8	72-132			
Surrogate: Toluene-d8	43.4		"	5().()		86.8	74-118			
Surrogate: 4-Bromofluorohenzene	38.6		"	50.0		77.2	65-140			

Rice Operating Co.Project:Justis Jet. L-1 VentFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope06/05/06 14:46

#### Notes and Definitions

S-07	Recovery outside Laboratory historical or method prescribed limits.
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
LC\$	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:

Date:

6/5/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director La Tasha 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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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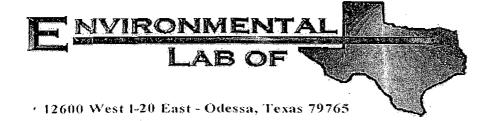
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									M.S.O.M. Total Dissolved Solids TOTAL (Pre-Schedule TAT HEUS	×	×	×								N N (2009)		
Project Name: Justis Jct. L-1 Vent		a County				Analyze For	×		BJEK 8051B/2030 Zemivolstijes Aoleijes	×	×	×			-					Sample Containers Intact?  Labels on container?  Custody Seals: Containers Cooler  Temperature Upon Receipt: 2.5"	Laboratory Comments:	
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				Fax No: (505) 397-147					Time Sampled	7:45	8:35	9:40								kpope@riceswd.com & mfranks@riceswd.com	Jan	
@riceswd.com					9310				bəldms2 əts0	5/24/2006	5/24/2006	5/24/2006									Received by:	Received by ELOT:
arris Pope kpope@rice	erating Company	aylor Street	vew Mexico 88240	3-9174	Johnson (505) 631-	Control of the Contro	(Avaion let. con)		SHE! D CODE							•				PLEASE Email RESULTS TO:	Date Time	Date Time Receive
Project Manager: Kristin Farris Pope	Company Name RICE Operating Company	Company Address: 122 W. Taylor Street	city/state/zip: Hobbs, New Mexico 88240	Telephone No: (505) 393-9174	sampler Signature: Rozanne Johnson (505) 631-9310	70000000	Email: 102di ii ci			Monitor Well #1	Monitor Well #2	O.C.   Monitor Well #3								Special Instructions: PLEA	Relinquished by	Relinquished by:
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#### Environmental Lab of Texas Variance / Corrective Action Report — Sample Log-In

Client: <u>Lice Op.</u>			,		
laster 14500					
Date/Time: <u>\$25</u> [80   0.50					
1051500 D				,	
Order #: (1 - 1200 )					
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nitials:					
On the many that	O( 14)*				
Sample Receipt Temperature of container/cooler?			26	·	
Shipping container/cooler in good condition?	Yes	No No	25	<u>C  </u>	
Custody Seals intact on shipping container/cooler?		No	Not prese	\mt	
Custody Seals intact on sample bottles?	(25) Value	No	Not prese		
Chain of custody present?		No	rior press	=:::::	
Sample Instructions complete on Chain of Custody?	1	No			
Chain of Custody signed when relinquished and received?		No			
Chain of custody agrees with sample label(s)	(Es	No			
Container labels legible and intact?		No			
Sample Matrix and properties same as on chain of custody?	Yes	No	·		
Sample Matrix and properties same as on chair of custody?  Samples in proper container/bottle?	Yes	No			
Samples in proper container/bottle?		No			
Sample bottles intact?	785 785	No		<del>-</del>	
Preservations documented on Chain of Custody?		No			
Containers documented on Chain of Custody?	) (E5   (E5	No			
Sufficient sample amount for indicated test?	(785) (785)	No			
All samples received within sufficient hold time?	Yes	No			
VOC samples have zero headspace?	(2)	No	Not Apolio	<u> </u>	
Other observations:					-
					;
Variance Docu					
Contact Person: - Date/Time: Date/Time:			Contacted	l by: _	
Corrective Action Taken:					
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## Analytical Report

#### Prepared for:

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

Project: Justis Junction L-1 Vent Project Number: None Given

Location: T25S-R37E-Sec1L- Lea County, NM

Lab Order Number: 6I14014

Report Date: 09/22/06

Project: Justis Junction L-1 Vent

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6114014-01	Water	09/14/06 13:45	09-14-2006 16:00
Monitor Well #2	6114014-02	Water	09/14/06 12:20	09-14-2006 16:00
Monitor Well #3	6I14014-03	Water	09/14/06 11:25	09-14-2006 16:00

Project: Justis Junction L-1 Vent

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

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

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared-	Analyzed	Method	Notes
Monitor Well #1 (6114014-01) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	п	п	#1	"	ii	II.	
Ethylbenzene	ND	0.00100	II.	**	**	"	II	"	
Xylene (p/m)	ND	0.00100	н	11	U	п	н	"	
Xylene (o)	ND	0.00100		H	н	"	"	**	
Surrogate: a,a,a-Trifluorotoluene		93.0 %	80-12	?0	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-12	20	n	"	"	n	
Monitor Well #2 (6I14014-02) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	n	n n	н	11	"	и	
Ethylbenzene	ND	0.00100	n .	n	n	"	**	н	
Xylene (p/m)	ND	0.00100	u	#	H	"	н	п	
Xylene (o)	ND	0.00100	"	"	н	n .	II.	п	
Surrogate: a,a,a-Trifluorotoluene		89.8 %	80-12	20	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-12	20	"	"	n	"	
Monitor Well #3 (6114014-03) Water									
Benzene	ND	0.00100	mg/L	l	E161906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	**	н	"	tt	11	"	
Ethylbenzene	ND	0.00100	11	"	11	**	17	**	
Xylene (p/m)	ND	0.00100	if.	н	п	**	п	11	
Xylene (o)	ND	0.00100		n	ü	ti	п	п	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-1.	20	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	80-1.	20	"	n	"	"	

Project: Justis Junction L-1 Vent

Fax: (505) 397-1471

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

## 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 (6I14014-01) Water			**						
Total Alkalinity	226	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	672	12.5	"	25	EI61815	09/15/06	09/19/06	EPA 300,0	
Total Dissolved Solids	1870	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	339	12.5	ш	25	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #2 (6I14014-02) Water						_			
Total Alkalinity	256	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	546	12.5	"	25	E161815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	1660	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	306	12.5	n .	25	E161815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #3 (6114014-03) Water									
Total Alkalinity	160	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	125	5.00	"	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	562	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	125	5,00	11	10	E161815	09/15/06	09/19/06	EPA 300.0	

Project: Justis Junction L-1 Vent

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

Fax: (505) 397-1471

#### Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (6I14014-01) Water									
Calcium	205	4.05	mg/L	50	EI61801	09/18/06	09/18/06	EPA 6010B	
Magnesium	83.3	1.80	n	11	"	"	**	и	
Potassium	8.08	0.600	и	10	U	н	**	**	
Sodium	275	2.15	"	50	n	n	"	Ü	
Monitor Well #2 (6114014-02) Water									
Calcium	157	4.05	mg/L	50	E161801	09/18/06	09/18/06	EPA 6010B	
Magnesium	49.1	0.360	"	10	и	и	u	U	
Potassium	7.86	0.600	"	n	**	**	11	и	
Sodium	293	2.15	п	50	11	**	"	я	
Monitor Well #3 (6114014-03) Water									
Calcium	80.9	0.810	mg/L	10	E161801	09/18/06	09/18/06	EPA 6010B	
Magnesium	25.0	0.360		"	u	**	**	11	
Potassium	3.73	0.600	14	**	ч	п	ft	н	
Sodium	59.4	0.430	"	u.	ч	u	и	п	

Project: Justis Junction L-1 Vent

Fax: (505) 397-1471

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

#### 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 EI61906 - EPA 5030C (GC)										
Blank (EI61906-BLK1)				Prepared: 0	9/19/06 A	nalyzed: 09	/20/06			
Benzene	ND	0.00100	mg/L			<u> </u>				
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	**							
Xylene (p/in)	ND	0.00100	"							
Xylene (o)	ND	0.00100	и							
Surrogate: a,a,a-Trifluorotoluene	41.7		ug4	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120			
LCS (EI61906-BS1)				Prepared &	: Analyzed:	: 09/19/06				
Benzene	0,0553	0.00100	mg/L	0.0500		111	80-120			
Toluene	0.0473	0.00100	"	0.0500		94.6	80-120			
Ethylbenzene	0.0437	0.00100	n	0.0500		87.4	80-120			
Xylene (p/m)	0.105	0.00100	н	0.100		105	80-120			
Xylene (o)	0.0506	0.00100	, u	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9		ug l	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8	80-120			
Calibration Check (EI61906-CCV1)				Prepared: (	)9/19/06 A	nalyzed: 09	9/20/06			
Benzene	0.0540		mg/L	0.0500		108	80-120			
Toluene	0.0482		u	0.0500		96.4	80-120			
Ethylbenzene	0.0489		u	0.0500		97.8	80-120			
Xylene (p/m)	0.0966		**	0.100		96.6	80-120			
Xylene (o)	0.0480		**	0.0500		96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.1		ug4	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	43.3		п	40.0		108	80-120			
Matrix Spike (EI61906-MS1)	Sou	ırce: 6114005-0	01	Prepared: (	09/19/06 A	nalyzed: 09	9/20/06			
Benzene	0.0597	0.00100	mg/L	0.0500	ND	119	80-120			
Toluene	0.0503	0.00100		0.0500	ND	101	80-120			
Ethylbenzene	0.0502	0.00100	.,	0.0500	ND	100	80-120			
Xylene (p/m)	0.106	0.00100	u	0.100	ND	106	80-120			
Xylene (o)	0.0511	0.00100	D.	0.0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		ug l	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	46.6		"	40.0		116	80-120			

Project: Justis Junction L-1 Vent

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

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

#### 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 EI61906 - EPA 5030C (GC)										
Matrix Spike Dup (EI61906-MSD1)	Sou	rce: 6114005-0	01	Prepared: 0	09/19/06 A	nalyzed: 09	/20/06			
Benzene	0.0580	0.00100	mg/L	0.0500	ND	116	80-120	2.55	20	
Toluene	0.0510	0.00100	p	0.0500	ND	102	80-120	0.985	20	
Ethylbenzene	0.0506	0.00100	"	0.0500	ND	101	80-120	0.995	20	
Xylene (p/m)	0.106	0.00100		0.100	ND	106	80-120	0.00	20	
Xylene (o)	0.0534	0.00100	ŧı	0.0500	ND	107	80-120	4.78	20	
Surrogate: a,a,a-Trifluorotoluene	40.0		ug·l	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120			

Project: Justis Junction L-1 Vent

122 W. Taylor

Project Number: None Given

Fax: (505) 397-1471

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

#### 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 EI61815 - General Preparation (V	VetChem)									
Blank (EI61815-BLK1)				Prepared: (	)9/15/06 At	nalyzed: 09	7/19/06			
Sulfate .	ND	0.500	mg/L							
Chloride	ND	0.500	***							
LCS (EI61815-BS1)				Prepared: (	)9/15/06 Ai					
Chloride	9.83	0.500	mg/L	10.0		98.3	80-120			
Sulfate	10.1	0.500	11	10.0		101	80-120			
Calibration Check (E161815-CCV1)		Prepared: (	09/15/06 Ai	nalyzed: 09	9/19/06					
Chloride	9.86		mg/L	10.0		98.6	80-120			
Sulfate	10.2		**	10.0		102	80-120			
Duplicate (EI61815-DUP1)	Sour	ce: 6113001-	01	Prepared: (	09/15/06 A					
Chloride	223	5.00	mg/L		221			0.901	. 20	
Sulfate	.80.6	5.00	n		80.7			0.124	20	
Duplicate (EI61815-DUP2)	Sour	ce: 6114014-	02	Prepared:	09/15/06 A	nalyzed: 09	9/19/06			
Chloride	547	12.5	mg/L		546			0.183	20	
Sulfate	306	12.5	п		306			0.00	20	
Matrix Spike (EI61815-MS1)	Sour	ce: 6113001-	01	Prepared:	09/15/06 A	nalyzed: 09	9/19/06			
Chloride	331	5.00	mg/L	100	221	110	80-120			
Sulfate	185	5.00	n	100	80.7	104	80-120			
Matrix Spike (EI61815-MS2)	Sour	ce: 6114014-	02	Prepared: 09/15/06 Analyzed: 09/19/06						
Chloride	829	12.5	mg/L	250	546	113	80-120	-		
Sulfate	579	12.5		250	306	109	80-120			

Project: Justis Junction L-1 Vent

122 W. Taylor

Project Number: None Given

Fax: (505) 397-1471

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

		Reporting			Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI61818 - Filtration Preparat	ion									
Blank (EI61818-BLK1)				Prepared: (	09/15/06 A	nalyzed: 09	/18/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EI61818-DUP1)	Sour	ce: 6114012-0	1	Prepared: (	)9/15/06 A	nalyzed: 09	/18/06			
Total Dissolved Solids	1250	10.0	mg/L		1260			0.797	5	
Duplicate (EI61818-DUP2)	Sour	ce: 6I14014-0	13	Prepared: (	)9/15/06 Å	nalyzed: 09	/18/06			
Total Dissolved Solids	564	10.0	mg/L		562			0,355	5	
Batch E162015 - General Preparation	on (WetChem)			Prepared &	z Analyzed	: 09/20/06				
Total Alkalinity	ND	2.00	mg/L	A	.,,					
LCS (EI62015-BS1)				Prepared &	z Analyzed	: 09/20/06				
Total Alkalinity	170	2.00	mg/L	200		85.0	85-115			-
Duplicate (EI62015-DUP1)	Sour	ce: 6114012-0	01	Prepared &	k Analyzed					
Total Alkalinity	170	2.00	mg/L		164			3.59	20	
Reference (E162015-SRM1)				Prepared &	ኔ Analyzed	: 09/20/06				
Total Alkalinity	240		mg/L	250		96.0	90-110			

Project: Justis Junction L-1 Vent

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

#### Total Metals 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 El61801 - 6010B/No Digestion										
Blank (EI61801-BLK1)				Prepared &	z Analyzed:	: 09/18/06				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	*							
Calibration Check (EI61801-CCV1)				Prepared &	k Analyzed:	: 09/18/06				
Calcium	1.89		mg/L	2.00		94.5	85-115			
Magnesium	2.15		**	2.00		108	85-115			
Potassium	1.74		11	2.00		87.0	85-115			
Sodium	1.73		п	2.00		86.5	85-115			
Duplicate (EI61801-DUP1)	Sou	rce: 6I14005-	01	Prepared &	k Analyzed	: 09/18/06				
Calcium	40.2	0.810	mg/L		39.4			2.01	20	
Magnesium	18.0	0.360	п		17.6			2.25	20	
Potassium	8.88	0.600	**		8,96			0.897	20	
Sodium	48.5	0.430	"		49.1			1.23	20	

Project: Justis Junction L-1 Vent

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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:

9/22/2006

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

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 10 of 10

Fax: (505) 397-1471

# Environmental Lab of Texas

12500 West I-20 East Odessa, Texas 78766

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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SECTION OF STREET

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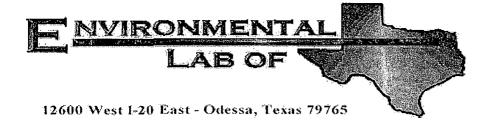
TAT bisbrist × × × (Piubərio2-919) TAT H2UR 7255-R37E-Sec1L - Lea County, NM D V ability beulassift into Project Name: Justle Junction L-1 Vent MARKA! Cualody Sealer Contampre D) Temperature Unen Receipt Sample Containers Intact? Laboratory Comments: DIEX BILLENGEDD × × Labels on container? 5C 6H 6TH IO 9O EH 6A 6A 24 24 25 TOLP DEDIASE/HAVE ₽O# Project #: THE REST (COS. P.COS.) (Ca, Mg, Nsa, K) andr angr METCO Project Loc: ms PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com स्टिक्माहर Date × × अधिकार (( डिक्रकार्डि)) BACOH ERON (II) FRANK "OS"H Fax No: (505) 397-1471 HOSE टोडॉ॰ टडडोप्र lan Dr (९९) ध्यास N N N CON No. of Containers ო n 3 rozanne@valornet.com 13:45 12:20 11:25 Time Sampled Received by ELOT kpope@riceswd.com 9/14/2006 9/14/2006 9/14/2006 Received by: Date: Sampled Sampler Signature: Rozanne Johnson (505) 631-9310 16.20 city/state/zip; Hobbs, New Mexico 88240 J.m.e Company Name RICE Operating Company Email: rozanne@valornet.com Company Address: 122 W. Taylor Street Project Manager: Kristin Fairls Pope c/1:4/0s Date FIELD CODE Telephone No: (505) 393-9174 Monitor Well #2 Monitor Well #3 Monitor Well # 1 Special instructions: AB # (lab use only) Relinquished by

### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

/Time: 9/14/00 [6:00					
( ( M) A	·				
ID#: 619014	<del></del> .		•		
als: W			,		
			•		
Sample	Receipt Ch	ecklist		•	
			· ·		nt Initials
Temperature of container/ cooler?		Yes	No_	265 °C	
Shipping container in good condition?	·	Yes	No		
Custody Seals intact on shipping container/ coole		ا\$	No	Not Present	
Custody Seals intact on sample bottles/ container	r? (	Xes	No_	Not Present	
Chain of Custody present?		Xes	No -		
Sample instructions complete of Chain of Custod		Yes	No		
Chain of Custody signed when relinquished/ rece	eived?	Yes	No_		
Chain of Custody agrees with sample label(s)?		Yes_	No	ID written on Cont./ Lid	
Container label(s) legible and intact?		Yes	No	Not Applicable	
<ul><li>Sample matrix/ properties agree with Chain of C</li><li>Containers supplied by ELOT?</li></ul>	ustody?	Yes	No		
1 Containers supplied by ELOT?		Yes	No		
2 Samples in proper container/ bottle?		Yes	No	See Below	
3 Samples properly preserved?	<u> </u>	Yes	No	See Below	
4 Sample bottles intact? 5 Preservations documented on Chain of Custody		<u> Yes</u>	No		
	/?	Yes	No		
6 Containers documented on Chain of Custody?		Yes	No		
<ul><li>7 Sufficient sample amount for indicated test(s)?</li><li>8 All samples received within sufficient hold time?</li></ul>		Yes	No	See Below	
	·	Yes	No	See Below	
9 VOC samples have zero headspace?		Yes	No	Not Applicable	
ntact: Contacted by:	nce Docume	ntation	-	Date/ Time:	
garding:					
rrective Action Taken:				· ,	
leck all that Apply: See attached e-n	nail/ fax				7
Client understand	ds and would I				

10/30/06



# Analytical Report

### **Prepared for:**

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

Project: Justis Jct. L-1 Vent

Project Number: None Given

Location: T25S, R37E, Sec.1L-Lea County, NM

Lab Order Number: 6K03008

Report Date: 11/10/06

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6K03008-01	Water	10/30/06 13:30	11-03-2006 11:45
Monitor Well #2	6K03008-02	Water	10/30/06 12:35	11-03-2006 11:45
Monitor Well #3	6K03008-03	Water	. 10/30/06 10:25	11-03-2006 11:45
Monitor Well #4	6K03008-04	Water	10/30/06 11:40	11-03-2006 11:45

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

# Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6K03008-01) Water									
Benzene	ND	0.00100	mg/L	1	EK60807	11/08/06	11/08/06	EPA 8021B	
Toluene	ND	0.00100	и .	31	"	*	"	ü	
Ethylbenzene	ND	0.00100	п -	n	и	и	п	**	
Xylene (p/m)	ND	0.00100	"	u	tı		п	**	
Xylene (o)	ND	0.00100	**	*	**	"	u .	II .	
Surrogate: a,a,a-Trifluorotoluene		80.8 %	80-1	20	"	"	н	. "	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-1	20	"	н	н	"	
Monitor Well #2 (6K03008-02) Water									
Benzene	ND	0.00100	mg/L	. 1	EK60807	11/08/06	11/08/06	EPA 8021B	
Toluene	ND	0.00100	II .	и	0	"	n	ш	
Ethylbenzene	ND	0.00100	и,	"	11	и	"	u	
Xylene (p/m)	ND	0.00100	**		"	и' -	· n	н	
Xylene (o)	ND	0.00100	"	n		п	п	п	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-1	20	"	И	"	"	
Monitor Well #3 (6K03008-03) Water						•			
Benzene	ND	0.00100	mg/L	l	EK60807	11/08/06	11/08/06	EPA 8021B	
Toluene	ND	0.00100	п	"	u	n	п	п	
Ethylbenzene	ND	0.00100	н	**	п	11	и	u	
Xylene (p/m)	ND	0.00100	**	"	"	0	**	**	
Xylene (o)	ND	0.00100	п •		"	"	**	"	
Surrogate: a,a,a-Trifluorotoluene		98.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-1	120	#	"	"	"	
Monitor Well #4 (6K03008-04) Water									
Benzene	ND	0.00100	mg/L	l	EK60807	11/08/06	11/08/06	EPA 8021B	
Toluene	ND	0.00100	"		**	n	11	"	
Ethylbenzene	ND	0.00100		"	**	п	**	"	
Xylene (p/m)	ND	0.00100	•		**	**	"	n	
Xylene (o)	ND	0.00100	"	н	"	н	"	н	
Surrogate: a,a,a-Trifluorotoluene		94.8 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	80-1	120	"	" .	"	"	

Environmental Lab of Texas

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122 W. Taylor Hobbs NM, 88240 Project: Justis Jct. L-1 Vent

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	D'I d'	D. J.	D. I	A .1 . 3	M.d.d	Mar
	Vezm		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6K03008-01) Water								•	
Total Alkalinity	240	2.00	mg/L	1	EK60711	11/07/06	11/07/06	EPA 310.1M	
Chloride	943	12.5	"	25	EK60602	11/06/06	11/06/06	EPA 300.0	
Total Dissolved Solids	2360	10.0	· ·	1	EK60209	11/03/06	11/06/06	EPA 160.1	
Sulfate	339	12.5	н	25	EK60602	11/06/06	11/06/06	EPA 300.0	
Monitor Well #2 (6K03008-02) Water							<u>_</u>		
Total Alkalinity	246	2.00	mg/L	1	EK60711	11/07/06	11/07/06	EPA 310.1M	
Chloride	505	10.0	н	· 20	EK60602	11/06/06	11/06/06	· EPA 300.0	
Total Dissolved Solids	1560	10.0	n	1	EK60209	11/03/06	11/06/06	EPA 160.1	
Sulfate	275	10.0	"	20	EK60602	11/06/06	11/06/06	EPA 300.0	
Monitor, Well #3 (6K03008-03) Water							•		
Total Alkalinity	194	2.00	mg/L	1	EK60711	11/07/06	11/07/06	EPA 310.1M	
Chloride	114	5.00	**	10	EK60602	11/06/06	11/06/06	EPA 300.0	
Total Dissolved Solids	518	10.0	"	1	EK60209	11/03/06	11/06/06	EPA 160.1	
Sulfate	111	5.00	ш	10	EK60602	11/06/06	11/06/06	EPA 300.0	
Monitor Well #4 (6K03008-04) Water	•								
Total Alkalinity '	260	2.00	mg/L	l	EK60711	11/07/06	11/07/06	EPA 310.1M	
Chloride	44.2	5.00		10	EK60602	11/06/06	11/06/06	EPA 300.0	
Total Dissolved Solids	492	10.0	"	l.	EK60209	11/03/06	11/06/06	EPA 160.1	
Sulfate	115	5.00	**	10	EK60602	11/06/06	11/06/06	EPA 300.0	

Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

### Total Metals by EPA / Standard Methods Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6K03008-01) Water									
Calcium	354	4.05	mg/L	50	EK60712	11/07/06	11/07/06	EPA 6010B	
Magnesium	127	1.80	u	, ,,	"	11	0	9	
Potassium	9.05	. 0,600	"	10	**	н	ú	п	
Sodium	323	2.15.		50	ш	**	**	**	
Monitor Well #2 (6K03008-02) Water		_							
Calcium	173	4.05	mg/L	50	EK60712	11/07/06	11/07/06	EPA 6010B	
Magnesium	60.4	1.80	n	"	**	**	11	"	
Potassium	7.65	0.600	"	10	**	17	11	и	
Sodium	304	2.15	и	50	Ü	и	u	**	
Monitor Well #3 (6K03008-03) Water									
Calcium	74.5	0.810	mg/L	10	EK60712	11/07/06	11/07/06	EPA 6010B	
Magnesium	24.2	0.360	"	"	п	n n	n ,	**	
Potassium	3.91	0.600	**	11	n	"	n .	п	
Sodium	61.4	0.430	н	п	,,	и	и	, u	
Monitor Well #4 (6K03008-04) Water									
Calcium	70.0	0.810	mg/L	10	EK60712	11/07/06	11/07/06	EPA 6010B	
Magnesium	22.7	0.360	**	п	"	11	**	19	
Potassium	3.76	0.600	**	. "	ч	**	11	D.	
Sodium	57.7	0.430	n.	11	**	tt	п	ш	

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: Justis Jct. L-1 Vent

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

Fax: (505) 397-1471

### 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 EK60807 - EPA 5030C (GC)										
,			· · ·	Droparad P	Anglugada	11/09/06				
Blank (EK60807-BLK1)	ND	. 0.00100		Prepared &	Anaryzeu	. 11/08/00				
Benzene			ıng/L							
Toluene	ND	0.00100 0.00100	11							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	,,							
Xylene (o)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	39.7		ug:I "	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.0		"	40.0		90.0	80-120			
LCS (EK60807-BS1)				Prepared &	Analyzed	: 11/08/06				•
Benzene	0.0505	0.00100	ıng/L	0.0500		101	80-120			
Toluene	0.0455	0.00100	п	0.0500		91.0	80-120			
Ethylbenzene	0.0450	0.00100		0.0500		90.0	80-120			
Xylene (p/m)	0.0963	0.00100	**	0.100		96.3	80-120			
Xylene (o)	0.0469	0.00100	n	0.0500		93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.7		ug·l	40.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	42.3		"	40.0		106	80-120			
Calibration Check (EK60807-CCV1)	j			Prepared:	11/08/06 A	nalyzed: 11	1/09/06			
Benzene	53.7		ug/l	50.0		107	80-120			
Toluene	. 46.9		"	50.0		93.8	80-120			
Ethylbenzene	48.0		"	50.0		96.0	80-120			
Xylene (p/m)	93.1		n	100		93.1	80-120			
Xylene (o)	45.8		п	50.0		91.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.4		"	40.0		104	80-120	<u> </u>		
Surrogate: 4-Bromofluorobenzene	35.5		"	40.0		88.8	80-120			
Matrix Spike (EK60807-MS1)	Sou	ırce: 6K03002	-01	Prepared:	11/08/06 A	nalyzed: 1	1/09/06			
Benzene	0.0549	0.00100	mg/L	0.0500	ND	110	80-120			
Toluene	0.0474	0.00100	"	0.0500	ND	94.8	80-120			
Ethylbenzene	0.0462	0.00100	11	0.0500	ND	92.4	80-120			
Xylene (p/m)	0.0939	0.00100	**	0.100	ND	93.9	80-120			
Xylene (o)	0.0451	0.00100		0.0500	ND	90.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.5		ug I	40.0	·	98.8	80-120			
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0	ς.	93.5	80-120			

Project: Justis Jct. L-1 Vent

Fax: (505) 397-1471

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

### 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 EK60807 - EPA 5030C (GC)										
Matrix Spike Dup (EK60807-MSD1)	Sour	rce: 6K03002-01	1	Prepared: 1	1/08/06 A	nalyzed: 11	/09/06			
Benzene	0.0554	0.00100	mg/L	0.0500	ND	111	80-120	0.905	20	
Toluene	0.0504	0.00100	"	0.0500	ND	101	80-120	6.33	20	
Ethylbenzene	0.0472	0.00100	11	0.0500	ND	94.4	80-120	2.14	20	
Xylene (p/m)	0.105	0.00100	b	0.100	ND	105	80-120	11.2	20	
Xylene (o)	0.0521	0.00100	**	0.0500	ND	104	80-120	14.2	20	
Surrogate: a,a,a-Trifluorotoluene	39.4		ug/l	40.0		98.5	80-120			
Surrogate: 4-Bromofluorobenzene	42.5		"	40.0		106	80-120		,	

Project: Justis Jct. L-1 Vent

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240 Project Manager: Kristin Farris-Pope

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch EK60209 - Filtration Preparation										
Blank (EK60209-BLK1)				Prepared:	11/02/06 A	nalyzed: 11	/03/06			
Total Dissolved Solids	ND	10.0	mg/L					111 010		
Duplicate (EK60209-DUP1)	Sour	rce: 6K01015	-01	Prepared:	11/02/06 A	nalyzed: 11	/03/06			
Total Dissolved Solids	696	10.0	mg/L		702			0.858	5	
Duplicate (EK60209-DUP2)	Sour	rce: 6K03008	-04 .	Prepared:	11/03/06 A	nalyzed: 11	/06/06			
Total Dissolved Solids	500	10.0	mg/L		492			1.61	5 .	
Batch EK60602 - General Preparation (W	/etChem)									
Blank (EK60602-BLK1)	·····			Prepared &	Ł Analyzed	11/06/06				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	**							
LCS (EK60602-BS1)				Prepared &	k Analyzed	11/06/06				
Chloride	10.2	0.500	mg/L	10.0		102	80-120			
Sulfate	9.30	0.500	11	10.0		93.0	80-120			
Calibration Check (EK60602-CCV1)				Prepared &	& Analyzed	: 11/06/06				
Sulfate	10.9		mg/L	10.0		109	80-120			
Chloride	10.0		п	10.0		100	80-120			
Duplicate (EK60602-DUP1)	Sou	rce: 6K03002	-01	Prepared &	& Analyzed	: 11/06/06				
Chloride	45.8	5.00	mg/L		45.4			0.877	20	
Sulfate	508	5.00	11		511			0.589	20	
Duplicate (EK60602-DUP2)	Sou	rce: 6K03008	-04	Prepared &	& Analyzed	: 11/06/06				
Sulfate	116	5.00	mg/L		115			0,866	20	
Chloride	44.5	5.00	и .		44.2			0.676	20	

Project: Justis Jct. L-1 Vent

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given

Project Manager: Kristin Farris-Pope

# 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 EK60602 - General Preparatio	on (WetChem)									
Matrix Spike (EK60602-MS1)	Sour	ce: 6K03002-	01	Prepared &	. Analyzed:	11/06/06				
Sulfate	613	5.00	mg/L	100	100 511		80-120			
Chloride	148	5.00	"	100	45.4	103	80-120			
Matrix Spike (EK60602-MS2)	Sour	ce: 6K03008-	04	Prepared &	. Analyzed:	11/06/06				
Sulfate	214	5.00	mg/L	100	115	99.0	80-120			
Chloride	150	5.00	n	100	44.2	106	80-120			
Batch EK60711 - General Preparation	on (WetChem)								•	
Blank (EK60711-BLK1)				Prepared &	Analyzed:	11/07/06				,
Total Alkalinity	ND	2.00	mg/L							
LCS (EK60711-BS1)				Prepared &	Analyzed:	11/07/06				
LCS (EK60711-BS1) Total Alkalimity	202	2.00	ıng/L	Prepared &	Analyzed	11/07/06	85-115	<del></del>		
		2.00 ce: 6K03008-		200	ε Analyzed ε Analyzed	101	85-115			
Total Alkalinity				200		101	85-115	1.68	20	
Total Alkalinity  Duplicate (EK60711-DUP1)	Sour	ce: 6K03008-	01	200 Prepared &	ε Analyzed	101 11/07/06	85-115	1.68	20	

Project: Justis Jct. L-1 Vent

122 W. Taylor

Project Number: None Given

Fax: (505) 397-1471

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch EK60712 - 6010B/No Digestion										·
Blank (EK60712-BLK1)				Prepared &	Analyzed:	: 11/07/06				
Calcium	ND	0.0810	mg/L							
Magnesiun	ND	0.0360	**							
Potassium	ND	0.0600								
Sodium	ND	0.0430	. 11							
Calibration Check (EK60712-CCV1)				Prepared &	k Analyzed	: 11/07/06				
Calcium	2.26		ıng/L	2.00	-	113	85-115			
Magnesium	2.12		н	2.00		106	85-115			
Potassium	1.73		11	2.00		86.5	85-115			
Sodium	2.13		и	2.00		106	85-115			
Duplicate (EK60712-DUP1)	Sou	rce: 6K03002	-01	Prepared &	k Analyzed	: 11/07/06				
Calcium	84.4	0.810	mg/L		83.8	,		0.713	20	
Magnesium	40.5	0.360	Ħ		38.9			4.03	20	
Potassium	7.74	0.600	**		8.13			4.91	20	
Sodium	110	2.15	н		117			6.17	20	

Rice Operating Co.
Project: Justis Jct. L-1 Vent
Project Number: None Given
Hobbs NM, 88240
Project Manager: Kristin Farris-Pope

### 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

Matrix Spike

LCS Laboratory Control Spike

Dup Duplicate

MS

Papart Approved Du	Raland Kitub

Date: 11/10/2006

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

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

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Justis Junction L-1 Vent		31 ~ L			za For:		09	B1EX 8051B/2030 or B1EX 85	×	×	×	×						-	Sample:Containers Intact?	Labers on container(s) Custody seals on container(s) Custody seals on container(s)	mple Hand Delivered by Sampler/Client Rep. ?	Temperature Upon Receipt.
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Kristin Farris Pope	RICE Operating Company	122 W. Taylor Street	Hobbs, New Mexico 88240	(505) 393-9174	Rozanne Johnson (505)631-9310		がなる。	·												Date 11-3-00	Date 11-3-00	Date
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Project Manager:	Company Name	Company Address:	City/State/Zip:	Telephone No:	Sampler Signature:	(lab use only)	<b>冷へ()</b> ()**	<u></u>	Monitor Well #1	Monitor Well #2	Monitor Well #3	Monitor Well #4							Special instructions:	Kejindaished by:	Religioushed by:	Aflinquished by:
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## Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ient:	Lice op-				
Date/ Time:	11/3/ôle 1/45			•	
Lab ID #:	6K0300F				
Initials:					
Commis Descript Charletine					
Sample Receipt Checklist  Client Initials					
#1 Tempera	ature of container/ cooler?	Yes	No	0.5 °C	en muais
#2 Shipping container in good condition?		(Yes)	No		
#3 . Custody Seals intact on shipping container/ cooler?		Yes	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?		Y#3	No	Not Present	
#5 Chain of Custody present?		Yes	No		
#6 Sample instructions complete of Chain of Custody?		Yes	No		
#7 Chain of Custody signed when relinquished/ received?		Yes	No		
#8 Chain of Custody agrees with sample label(s)?		Yeş	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?		Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?		Yes	No		
#11 Containers supplied by ELOT?		Yes	No		
#12 Samples in proper container/ bottle?		Yes	No.	See Below	
#13 Samples properly preserved?		(Yes	No	See Below	
#14 Sample bottles intact?		Yes,	No		
#15 Preservations documented on Chain of Custody?		Xes,	· No		
#16 Containers documented on Chain of Custody?		Yes	No		
#17 Sufficient sample amount for indicated test(s)?		Ves	No	See Below	
#18 All samples received within sufficient hold time?		Yes	No	See Below	
#19 VOC samples have zero headspace?		Yés)	No	Not Applicable	
Variance Documentation					
Contact:	Contacted by:			Date/ Time:	
Regarding:					
Corrective Action Taken:					
<u> </u>					
Check all that Apply:  See attached e-mail/ fax  Client understands and would like to proceed with analysis  Cooling process had begun shortly after sampling event					