AP - 75

ANNUAL MONITORING REPORT

YEAR(S):
2007

TRIDENT ENVIRONMENTAL

CERTIFIED MAIL
RETURN RECIEPT NO. 7099 3400 0017 1737 2534

March 18, 2008

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

RE: **2007 ANNUAL GROUNDWATER MONITORING REPORT**
BD JCT. J-26 SITE (AP-75)
T21S, R37E, SECTION 26, UNIT LETTER J
LEA COUNTY, NEW MEXICO

Mr. Hansen:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2007 Annual Groundwater Monitoring Report for the BD Jct. J-26 Site located in the Blinebry-Drinkard (BD) Salt Water Disposal (SWD) System.

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

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me at (432) 638-8740 or Kristin Farris Pope at (505) 393-9174.

Sincerely,

Gilbert J. Van Deventer, REM, PG

cc: KFP, JSC

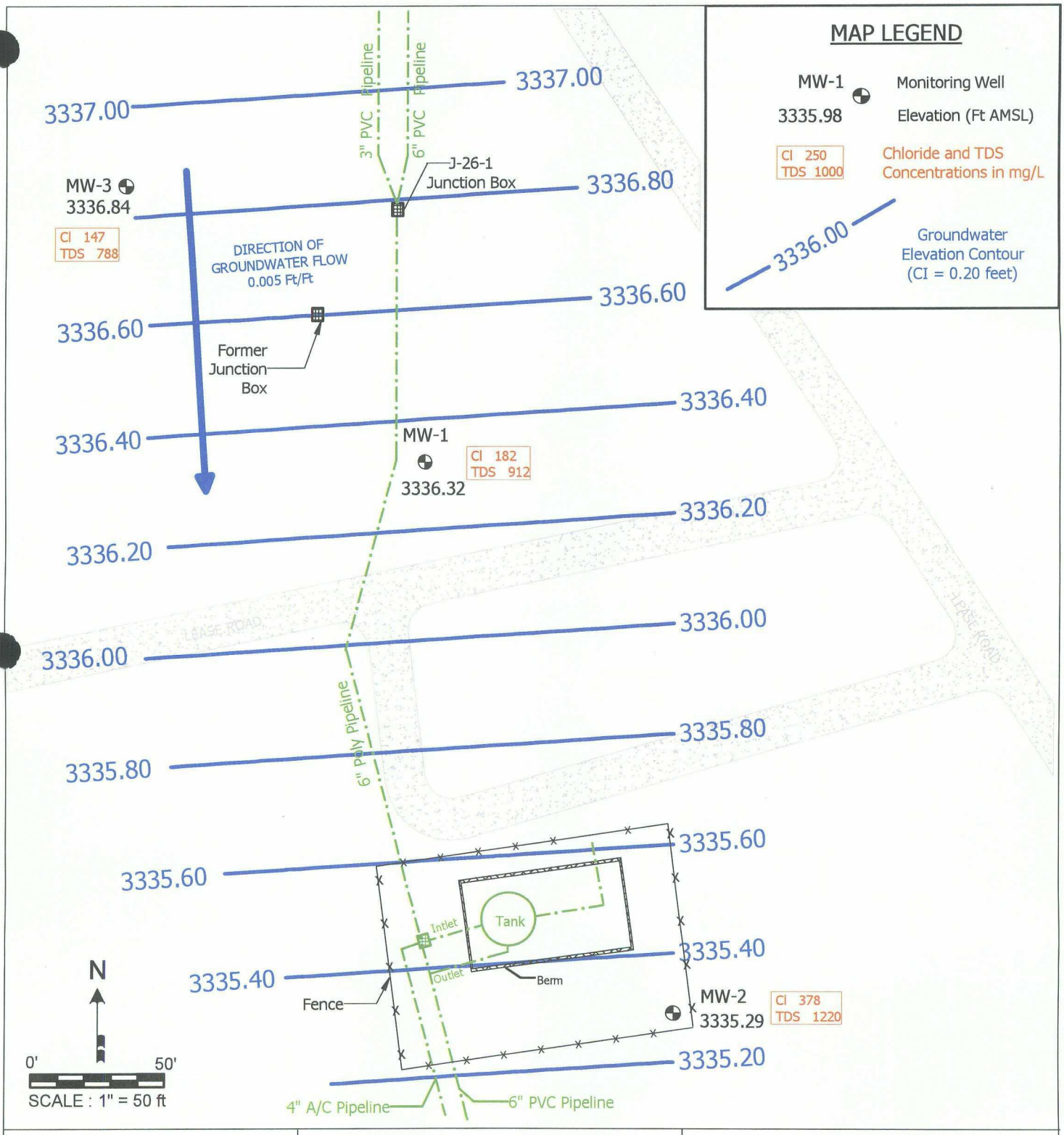
enclosures: maps, table, graphs, laboratory analytical reports, and well sampling data forms

ATTACHMENT A

Site Maps

Table

Graphs



TRIDENT ENVIRONMENTAL

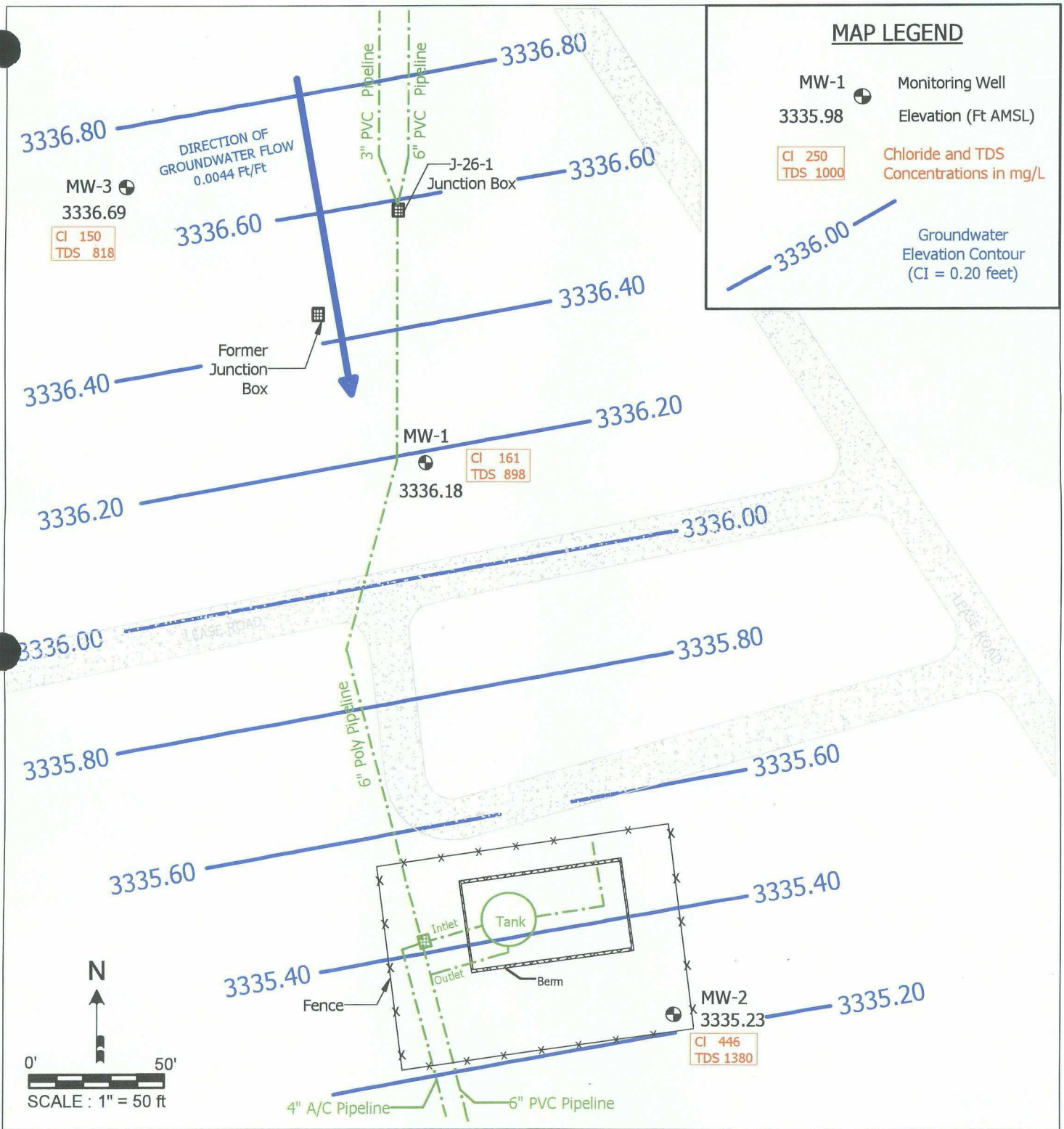
BD Jct. J-26 Site

T21S - R37E - Section 26 - Unit J

RICE *Operating Company*

FEBRUARY 8, 2007

GROUNDWATER GRADIENT AND CHLORIDE/TDS CONCENTRATION MAP



TRIDENT ENVIRONMENTAL

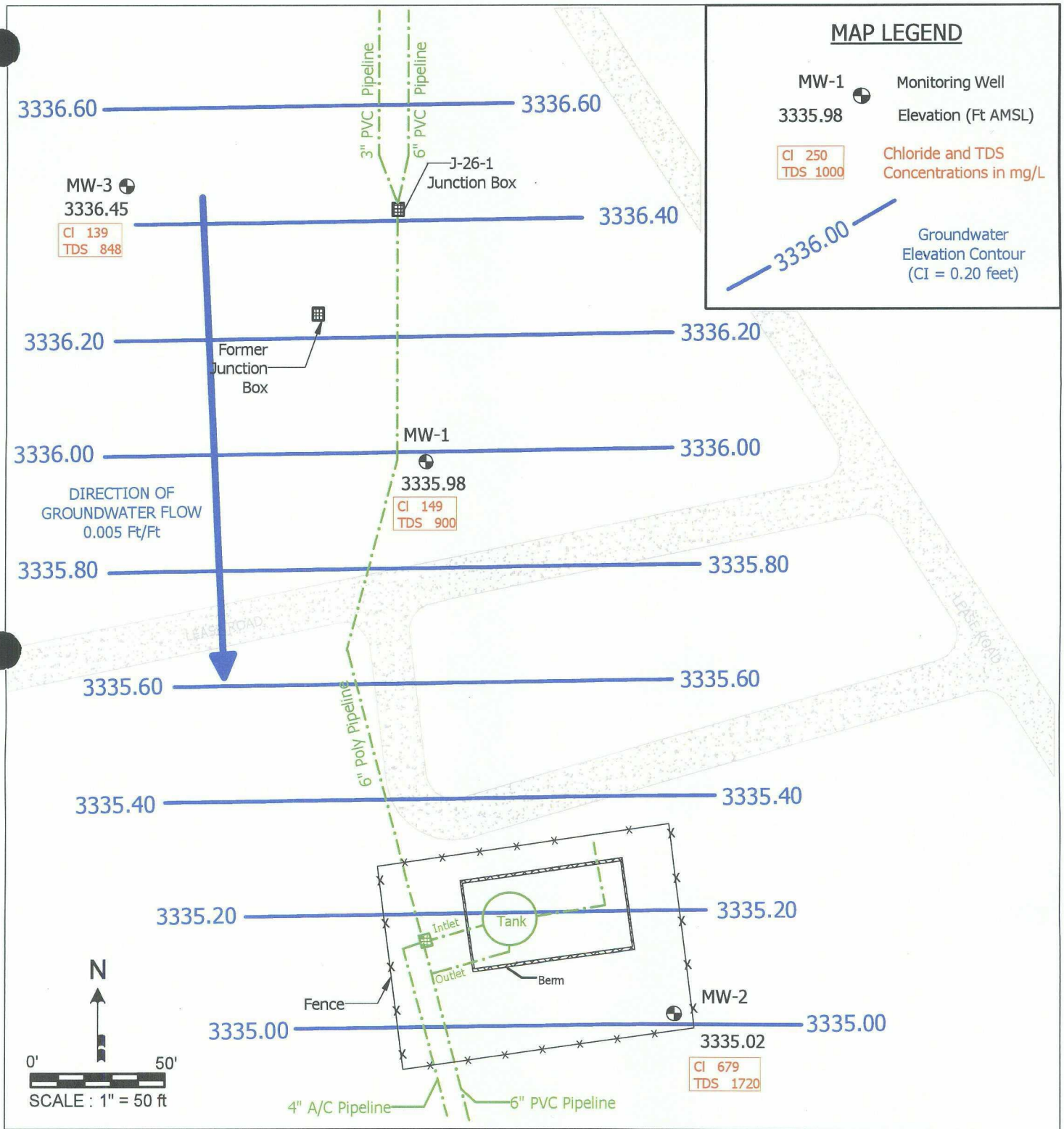
BD Jct. J-26 Site

T21S - R37E - Section 26 - Unit J

RICE Operating Company

APRIL 18, 2007

GROUNDWATER GRADIENT AND CHLORIDE/TDS CONCENTRATION MAP



TRIDENT ENVIRONMENTAL

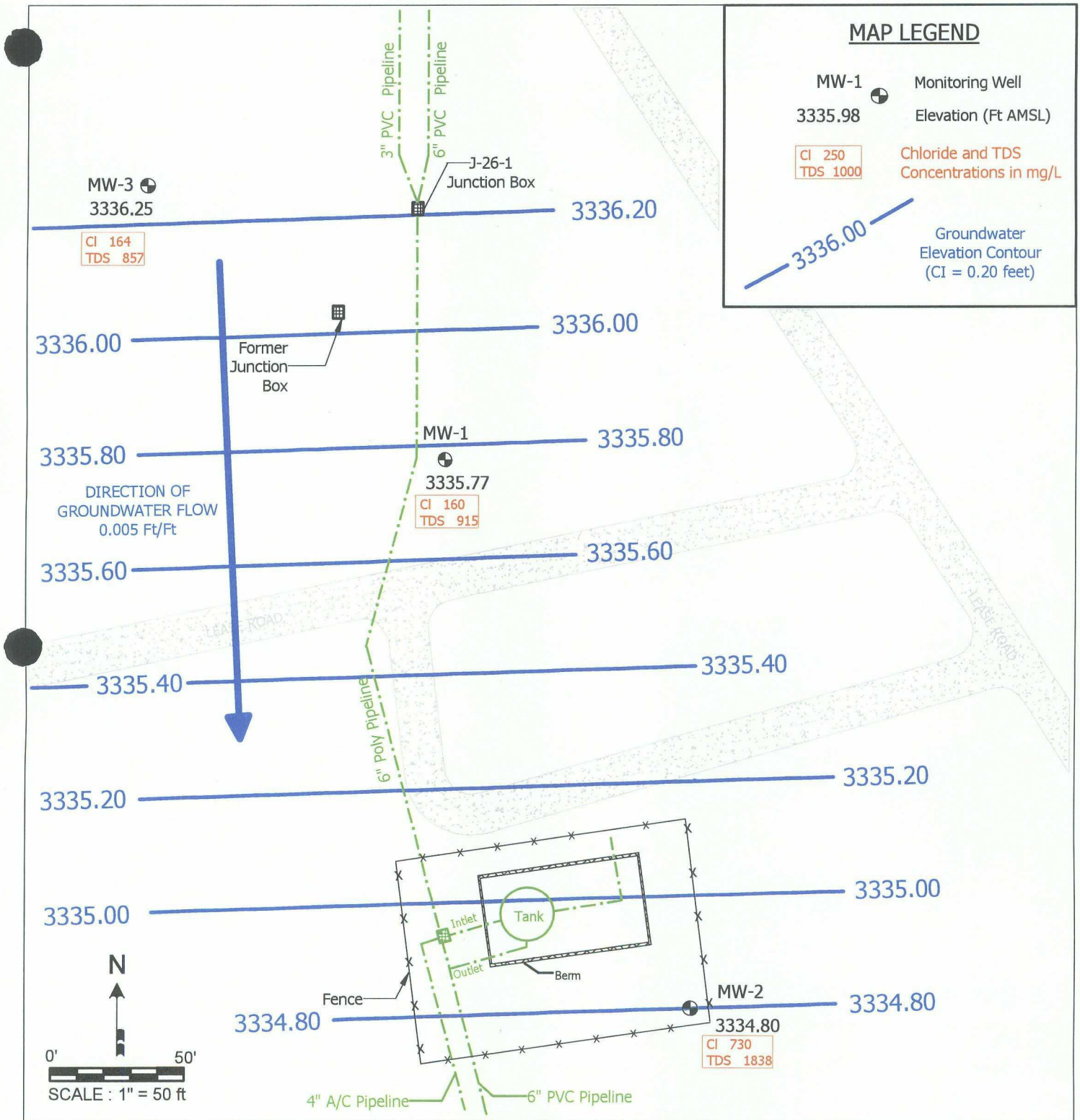
BD Jct. J-26 Site

T21S - R37E - Section 26 - Unit J

RICE Operating Company

JULY 18, 2007

GROUNDWATER GRADIENT AND CHLORIDE/TDS CONCENTRATION MAP



TRIDENT ENVIRONMENTAL

BD Jct. J-26 Site

T21S - R37E - Section 26 - Unit J

RICE Operating Company

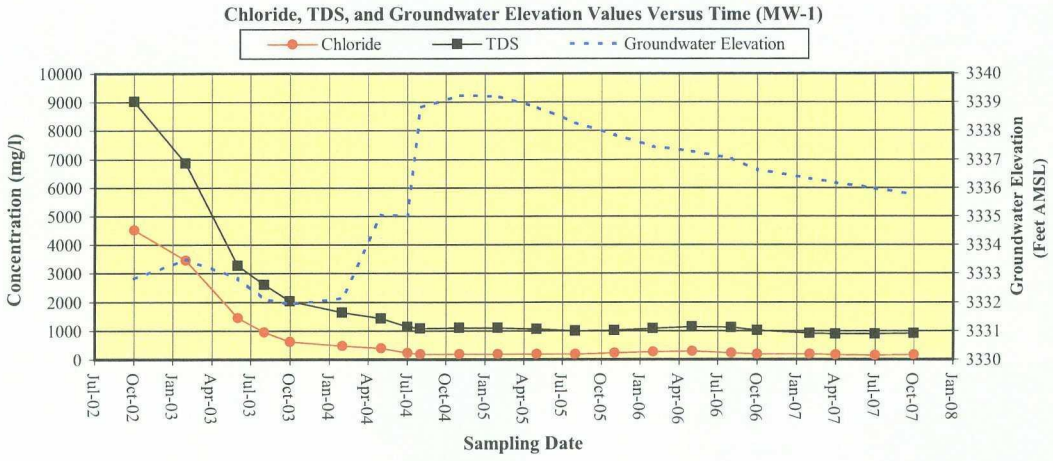
OCTOBER 10, 2007

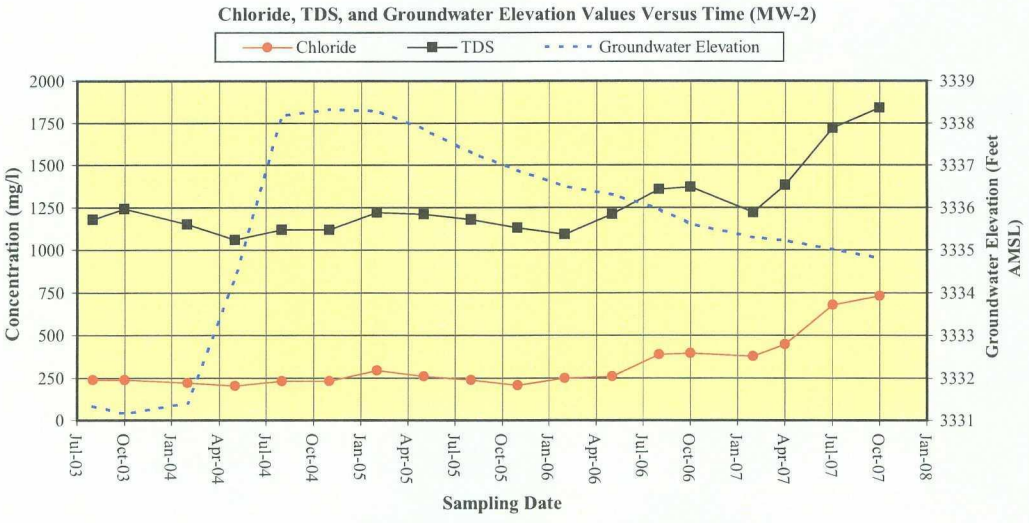
GROUNDWATER GRADIENT AND CHLORIDE/TDS CONCENTRATION MAP

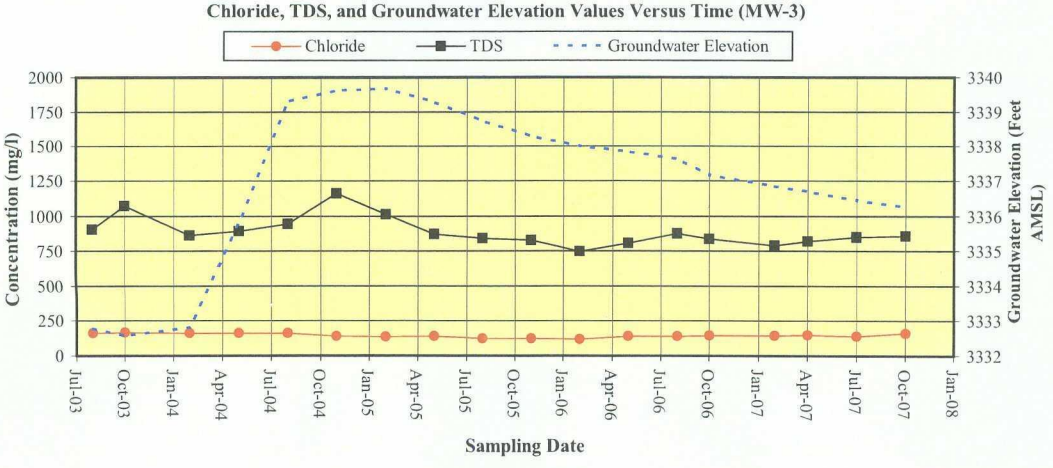
Table 1
Summary of Groundwater Sampling Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	10/29/02	43.02	3332.82	**4520**	**9020**	< 0.001	< 0.001	< 0.001	< 0.001
	02/28/03	42.33	3333.51	**3470**	**6870**	< 0.001	< 0.001	< 0.001	< 0.001
	06/05/03	43.00	3332.84	**1460**	**3280**	< 0.001	< 0.001	< 0.001	< 0.001
	08/22/03	43.72	3332.12	**957**	**2620**	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	43.91	3331.93	**620**	**2040**	< 0.001	< 0.001	< 0.001	< 0.001
	02/18/04	43.70	3332.14	**478**	**1630**	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/04	40.80	3335.04	**390**	**1440**	< 0.001	< 0.001	< 0.001	< 0.001
	07/08/04	40.80	3335.04	230	**1140**	< 0.001	< 0.001	< 0.001	< 0.001
	08/10/04	37.02	3338.82	195	**1080**	< 0.001	< 0.001	< 0.001	< 0.001
	11/09/04	36.61	3339.23	177	**1100**	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.62	3339.22	179	**1090**	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/05	37.00	3338.84	179	**1060**	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	37.56	3338.28	193	**1000**	< 0.001	< 0.001	< 0.001	< 0.001
	11/07/05	37.98	3337.86	233	**1020**	< 0.001	< 0.001	< 0.001	< 0.001
	02/06/06	38.39	3337.45	**262**	**1080**	< 0.001	< 0.001	< 0.001	< 0.001
	05/08/06	38.55	3337.29	**282**	**1140**	< 0.001	< 0.001	< 0.001	< 0.001
	08/01/06	38.80	3337.04	218	**1126**	< 0.001	< 0.001	< 0.001	< 0.001
	10/23/06	39.21	3336.63	193	**1010**	---	---	---	---
	02/08/07	39.52	3336.32	182	912	---	---	---	---
	04/18/07	39.66	3336.18	161	898	---	---	---	---
	07/18/07	39.86	3335.98	149	900	---	---	---	---
	10/10/07	40.07	3335.77	160	915	---	---	---	---
MW-2	08/22/03	43.99	3331.33	239	**1180**	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	44.17	3331.15	239	**1240**	< 0.001	< 0.001	< 0.001	< 0.001
	02/18/04	43.91	3331.41	221	**1150**	< 0.001	0.001	< 0.001	< 0.001
	05/05/04	40.98	3334.34	204	**1060**	< 0.001	0.001	< 0.001	< 0.001
	08/10/04	37.14	3338.18	230	**1120**	< 0.001	< 0.001	< 0.001	< 0.001
	11/09/04	36.99	3338.33	230	**1120**	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	37.03	3338.29	**294**	**1220**	< 0.001	< 0.001	< 0.001	< 0.001
	05/06/05	37.46	3337.86	**257**	**1210**	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	38.02	3337.30	237	**1180**	< 0.001	< 0.001	< 0.001	< 0.001
	11/07/05	38.44	3336.88	206	**1130**	< 0.001	< 0.001	< 0.001	< 0.001
	02/06/06	38.83	3336.49	**250**	**1090**	< 0.001	< 0.001	< 0.001	< 0.001
	05/08/06	39.02	3336.30	**257**	**1210**	< 0.001	< 0.001	< 0.001	< 0.001
	08/01/06	39.35	3335.97	**387**	**1358**	< 0.001	< 0.001	< 0.001	< 0.001
	10/23/06	39.71	3335.61	**395**	**1370**	---	---	---	---
	02/08/07	40.03	3335.29	**378**	**1220**	---	---	---	---
	04/18/07	40.09	3335.23	**446**	**1380**	---	---	---	---
	07/18/07	40.30	3335.02	**679**	**1720**	---	---	---	---
	10/10/07	40.52	3334.80	**730**	**1838**	---	---	---	---
MW-3	08/22/03	43.06	3332.79	160	904	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	43.28	3332.57	168	**1070**	< 0.001	< 0.001	< 0.001	< 0.001
	02/18/04	43.03	3332.82	160	862	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/04	40.04	3335.81	160	891	< 0.001	< 0.001	< 0.001	< 0.001
	08/10/04	36.55	3339.30	164	941	< 0.001	< 0.001	< 0.001	< 0.001
	11/09/04	36.22	3339.63	142	**1160**	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.17	3339.68	138	**1010**	< 0.001	< 0.001	< 0.001	< 0.001
	05/06/05	36.56	3339.29	141	870	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	37.12	3338.73	125	842	< 0.001	< 0.001	< 0.001	< 0.001
	11/07/05	37.55	3338.30	125	826	< 0.001	< 0.001	< 0.001	< 0.001
	02/06/06	37.84	3338.01	119	748	< 0.001	< 0.001	< 0.001	< 0.001
	05/08/06	38.00	3337.85	142	806	< 0.001	< 0.001	< 0.001	< 0.001
	08/01/06	38.22	3337.63	141	876	< 0.001	< 0.001	< 0.001	< 0.001
	10/23/06	38.68	3337.17	147	834	---	---	---	---
	02/08/07	39.01	3336.84	147	788	---	---	---	---
	04/18/07	39.16	3336.69	150	818	---	---	---	---
	07/18/07	39.40	3336.45	139	848	---	---	---	---
	10/10/07	39.60	3336.25	164	857	---	---	---	---
WQCC Standards				250	1000	0.01	0.75	0.75	0.62

Total Dissolved Solids (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L)
Analyses performed by Cardinal Labs, Hobbs, NM (1995-1998) and Environmental Lab of Texas, Odessa, TX (1999-2003).
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.
AMSL - Above Mean Sea Level; BTOC - Below Top of Casing
Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.
--- BTEX analysis discontinued as approved by NMOCD on 05/19/06.


Chloride, TDS, and Groundwater Elevation Values Versus Time (MW-1)
Chloride
TDS
Groundwater Elevation
Concentration (mg/l)
Groundwater Elevation (Feet AMSL)
Sampling Date


Chloride, TDS, and Groundwater Elevation Values Versus Time (MW-2)
Chloride
TDS
Groundwater Elevation
Concentration (mg/l)
Groundwater Elevation (Feet AMSL)
Sampling Date


Chloride, TDS, and Groundwater Elevation Values Versus Time (MW-3)
Chloride
TDS
Groundwater Elevation
Concentration (mg/l)
Groundwater Elevation (Feet AMSL)
Sampling Date

APPENDIX B

Laboratory Analytical Reports

And

Chain of Custody Documentation

ENVIRONMENTAL LAB OF
12600 West I-20 East - Odessa, Texas 79765
A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD Jct. J-26

Project Number: None Given

Location: T21S R37E Sec26 J ~ Lea County New Mexico

Lab Order Number: 7B09007

Report Date: 02/13/07

Rice Operating Co.	Project: BD Jct. J-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7B09007-01	Water	02/08/07 13:15	02-08-2007 16:50
Monitor Well #2	7B09007-02	Water	02/08/07 14:10	02-08-2007 16:50
Monitor Well #3	7B09007-03	Water	02/08/07 12:35	02-08-2007 16:50

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

Rice Operating Co.	Project: BD Jct. J-26	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

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B09007-01) Water									
Total Alkalinity	**230**	2.00	mg/L	1	EB71213	02/10/07	02/10/07	EPA 310.1M	
Chloride	**182**	5.00	"	10	EB71202	02/12/07	02/13/07	EPA 300.0	
Total Dissolved Solids	**912**	10.0	"	1	EB71003	02/09/07	02/10/07	EPA 160.1	
Sulfate	**239**	5.00	"	10	EB71202	02/12/07	02/13/07	EPA 300.0	
Monitor Well #2 (7B09007-02) Water									
Total Alkalinity	**236**	2.00	mg/L	1	EB71213	02/10/07	02/10/07	EPA 310.1M	
Chloride	**378**	10.0	"	20	EB71202	02/12/07	02/13/07	EPA 300.0	
Total Dissolved Solids	**1220**	10.0	"	1	EB71003	02/09/07	02/10/07	EPA 160.1	
Sulfate	**246**	10.0	"	20	EB71202	02/12/07	02/13/07	EPA 300.0	
Monitor Well #3 (7B09007-03) Water									
Total Alkalinity	**230**	2.00	mg/L	1	EB71213	02/10/07	02/10/07	EPA 310.1M	
Chloride	**147**	5.00	"	10	EB71202	02/12/07	02/13/07	EPA 300.0	
Total Dissolved Solids	**788**	10.0	"	1	EB71003	02/09/07	02/10/07	EPA 160.1	
Sulfate	**183**	5.00	"	10	EB71202	02/12/07	02/13/07	EPA 300.0	

Rice Operating Co.	Project: BD Jct. J-26	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

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B09007-01) Water									
Calcium	**77.5**	4.05	mg/L	50	EB70903	02/09/07	02/09/07	EPA 6010B	
Magnesium	**22.1**	0.360	"	10	"	"	"	"	
Potassium	**29.2**	0.600	"	"	"	"	"	"	
Sodium	**176**	2.15	"	50	"	"	"	"	
Monitor Well #2 (7B09007-02) Water									
Calcium	**118**	4.05	mg/L	50	EB70903	02/09/07	02/09/07	EPA 6010B	
Magnesium	**38.3**	0.360	"	10	"	"	"	"	
Potassium	**13.4**	0.600	"	"	"	"	"	"	
Sodium	**222**	2.15	"	50	"	"	"	"	
Monitor Well #3 (7B09007-03) Water									
Calcium	**76.7**	4.05	mg/L	50	EB70903	02/09/07	02/09/07	EPA 6010B	
Magnesium	**31.2**	0.360	"	10	"	"	"	"	
Potassium	**7.35**	0.600	"	"	"	"	"	"	
Sodium	**129**	2.15	"	50	"	"	"	"	

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

Rice Operating Co.	Project: BD Jct. J-26	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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71003 - Filtration Preparation										
Blank (EB71003-BLK1)				Prepared: 02/09/07 Analyzed: 02/10/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EB71003-DUP1)	**Source: 7B09002-01**			Prepared: 02/09/07 Analyzed: 02/10/07						
Total Dissolved Solids	852	10.0	mg/L		908			6.36	20	
Duplicate (EB71003-DUP2)	**Source: 7B09006-02**			Prepared: 02/09/07 Analyzed: 02/10/07						
Total Dissolved Solids	1550	10.0	mg/L		1420			8.75	20	
Batch EB71202 - General Preparation (WetChem)										
Blank (EB71202-BLK2)				Prepared: 02/12/07 Analyzed: 02/13/07						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EB71202-BS1)				Prepared: 02/12/07 Analyzed: 02/13/07						
Sulfate	11.1	0.500	mg/L	10.0		111	80-120			
Chloride	10.5	0.500	"	10.0		105	80-120			
Calibration Check (EB71202-CCV1)				Prepared: 02/12/07 Analyzed: 02/13/07						
Sulfate	10.1		mg/L	10.0		101	80-120			
Chloride	10.3		"	10.0		103	80-120			
Duplicate (EB71202-DUP1)	**Source: 7B09002-01**			Prepared: 02/12/07 Analyzed: 02/13/07						
Sulfate	20.3	10.0	mg/L		21.0			3.39	20	
Chloride	33.3	10.0	"		36.8			9.99	20	
Duplicate (EB71202-DUP2)	**Source: 7B09006-02**			Prepared: 02/12/07 Analyzed: 02/13/07						
Sulfate	265	12.5	mg/L		268			1.13	20	
Chloride	566	12.5	"		576			1.75	20	

Rice Operating Co.	Project: BD Jct. J-26	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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB71202 - General Preparation (WetChem)										
Matrix Spike (EB71202-MS1)		**Source: 7B09002-01**		Prepared: 02/12/07 Analyzed: 02/13/07						
Sulfate	256	10.0	mg/L	200	21.0	118	80-120			
Chloride	255	10.0	"	200	36.8	109	80-120			
Matrix Spike (EB71202-MS2)		**Source: 7B09006-02**		Prepared: 02/12/07 Analyzed: 02/13/07						
Sulfate	533	12.5	mg/L	250	268	106	80-120			
Chloride	845	12.5	"	250	576	108	80-120			
Batch EB71213 - General Preparation (WetChem)										
Blank (EB71213-BLK1)				Prepared & Analyzed: 02/10/07						
Total Alkalinity	ND	2.00	mg/L							
LCS (EB71213-BS1)				Prepared & Analyzed: 02/10/07						
Bicarbonate Alkalinity	194	2.00	mg/L	200		97.0	85-115			
Duplicate (EB71213-DUP1)		**Source: 7B09002-01**		Prepared & Analyzed: 02/10/07						
Total Alkalinity	226	2.00	mg/L		228			0.881	20	
Reference (EB71213-SRM1)				Prepared & Analyzed: 02/10/07						
Total Alkalinity	250		mg/L	250		100	90-110			

Rice Operating Co.	Project: BD Jct. J-26	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 EB70903 - 6010B/No Digestion										
Blank (EB70903-BLK1)				Prepared & Analyzed: 02/09/07						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EB70903-CCV1)				Prepared & Analyzed: 02/09/07						
Calcium	2.10		mg/L	2.00		105	85-115			
Magnesium	2.17		"	2.00		108	85-115			
Potassium	1.73		"	2.00		86.5	85-115			
Sodium	1.78		"	2.00		89.0	85-115			
Duplicate (EB70903-DUP1)	**Source: 7B09002-01**			Prepared & Analyzed: 02/09/07						
Calcium	139	4.05	mg/L		137			1.45	20	
Magnesium	25.4	0.360	"		26.3			3.48	20	
Potassium	2.51	0.600	"		2.58			2.75	20	
Sodium	108	2.15	"		110			1.83	20	

Rice Operating Co.	Project: BD Jct. J-26	Fax: (505) 397-1471
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: Brent Barron Date: 2/13/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

Project Manager: Kristin Farris Pope kpope@riceswd.com
Project Name: BD Junction J-26

Company Name: RICE Operating Company
Project #:

Company Address: 122 W. Taylor Street
Project Loc: T21S R37E Sec26 J ~ Lea County New Mexico

City/State/Zip: Hobbs, New Mexico 88240
PO #:

Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Report Format: [X] Standard [ ] TRRP [ ] NPDES

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

(lab use only)
ORDER #: 7B09007

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: Dw=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1	8015M	TPH: TX1005	TX 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-01	Monitor Well #1			2/8/2007	13:15		1	X						1		GW							X	X								X				X
-02	Monitor Well #2			2/8/2007	14:10		1	X						1		GW							X	X								X				X
-03	Monitor Well #3			2/8/2007	12:35		1	X						1		GW							X	X								X				X

Special Instructions:
Please email to: kpope@riceswd.com mfranks@riceswd.com rozanne@valornet.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	2807	4:50			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				2/8/07	4:50

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: RIVE OP.

Date/ Time: 2/8/07 4:50

Lab ID # : 7B07007

Initials: CH

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	2.5 °C	
#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?	Yes	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)?	Yes	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?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

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

ENVIRONMENTAL LAB OF
12600 West I-20 East - Odessa, Texas 79765
A Xenco Laboratories Company

Analytical Report

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

Project: BD Jct. J-26
Project Number: None Given
Location: T21S R37E Sec26 J ~ Lea County New Mexico

Lab Order Number: 7D18019

Report Date: 04/30/07

Rice Operating Co.	Project: BD Jct. J-26	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7D18019-01	Water	04/18/07 10:55	04-18-2007 14:55
Monitor Well # 2	7D18019-02	Water	04/18/07 11:50	04-18-2007 14:55
Monitor Well # 3	7D18019-03	Water	04/18/07 10:05	04-18-2007 14:55

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

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: BD Jct. J-26 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	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D18019-01) Water									
Total Alkalinity	**224**	2.00	mg/L	1	ED71913	04/19/07	04/19/07	EPA 310.1M	
Chloride	**161**	5.00	"	10	ED72411	04/24/07	04/27/07	EPA 300.0	
Total Dissolved Solids	**898**	10.0	"	1	ED72104	04/21/07	04/23/07	EPA 160.1	
Sulfate	**227**	5.00	"	10	ED72411	04/24/07	04/27/07	EPA 300.0	
Monitor Well # 2 (7D18019-02) Water									
Total Alkalinity	**176**	2.00	mg/L	1	ED71913	04/19/07	04/19/07	EPA 310.1M	
Chloride	**446**	10.0	"	20	ED72411	04/24/07	04/27/07	EPA 300.0	
Total Dissolved Solids	**1380**	10.0	"	1	ED72104	04/21/07	04/23/07	EPA 160.1	
Sulfate	**174**	10.0	"	20	ED72411	04/24/07	04/27/07	EPA 300.0	
Monitor Well # 3 (7D18019-03) Water									
Total Alkalinity	**272**	2.00	mg/L	1	ED71913	04/19/07	04/19/07	EPA 310.1M	
Chloride	**150**	5.00	"	10	ED72411	04/24/07	04/27/07	EPA 300.0	
Total Dissolved Solids	**818**	10.0	"	1	ED72104	04/21/07	04/23/07	EPA 160.1	
Sulfate	**180**	5.00	"	10	ED72411	04/24/07	04/27/07	EPA 300.0	

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

Rice Operating Co.	Project: BD Jct. J-26	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

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D18019-01) Water									
Calcium	**56.2**	0.810	mg/L	10	ED72703	04/27/07	04/27/07	EPA 6010B	
Magnesium	**30.0**	0.360	"	"	"	"	"	"	
Potassium	**37.2**	0.600	"	"	"	"	"	"	
Sodium	**220**	2.15	"	50	"	"	"	"	
Monitor Well # 2 (7D18019-02) Water									
Calcium	**137**	4.05	mg/L	50	ED72703	04/27/07	04/27/07	EPA 6010B	
Magnesium	**61.6**	1.80	"	"	"	"	"	"	
Potassium	**16.1**	0.600	"	10	"	"	"	"	
Sodium	**281**	4.30	"	100	"	"	"	"	
Monitor Well # 3 (7D18019-03) Water									
Calcium	**57.8**	0.810	mg/L	10	ED72703	04/27/07	04/27/07	EPA 6010B	
Magnesium	**35.9**	0.360	"	"	"	"	"	"	
Potassium	**10.2**	0.600	"	"	"	"	"	"	
Sodium	**196**	0.430	"	"	"	"	"	"	

Rice Operating Co.	Project: BD Jct. J-26	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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED71913 - General Preparation (WetChem)										
Blank (ED71913-BLK1)				Prepared & Analyzed: 04/19/07						
Total Alkalinity	ND	2.00	mg/L							
LCS (ED71913-BS1)				Prepared & Analyzed: 04/19/07						
Bicarbonate Alkalinity	176	2.00	mg/L	200		88.0	85-115			
Duplicate (ED71913-DUP1)	**Source: 7D18017-01**			Prepared & Analyzed: 04/19/07						
Total Alkalinity	226	2.00	mg/L		232			2.62	20	
Reference (ED71913-SRM1)				Prepared & Analyzed: 04/19/07						
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch ED72104 - Filtration Preparation										
Blank (ED72104-BLK1)				Prepared: 04/21/07 Analyzed: 04/23/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (ED72104-DUP1)	**Source: 7D18020-03**			Prepared: 04/21/07 Analyzed: 04/23/07						
Total Dissolved Solids	2450	10.0	mg/L		2950			18.5	20	
Batch ED72411 - General Preparation (WetChem)										
Blank (ED72411-BLK1)				Prepared: 04/24/07 Analyzed: 04/27/07						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
Blank (ED72411-BLK2)				Prepared: 04/24/07 Analyzed: 04/27/07						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

Rice Operating Co.	Project: BD Jct. J-26	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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED72411 - General Preparation (WetChem)										
LCS (ED72411-BS1)				Prepared & Analyzed: 04/24/07						
Chloride	9.02	0.500	mg/L	10.0		90.2	80-120			
Sulfate	9.66	0.500	"	10.0		96.6	80-120			
Calibration Check (ED72411-CCV1)				Prepared & Analyzed: 04/24/07						
Chloride	8.05		mg/L	10.0		80.5	80-120			
Sulfate	11.0		"	10.0		110	80-120			
Duplicate (ED72411-DUP1)		**Source: 7D23008-01**		Prepared & Analyzed: 04/24/07						
Chloride	187	5.00	mg/L		187			0.00	20	
Sulfate	74.3	5.00	"		74.0			0.405	20	
Duplicate (ED72411-DUP2)		**Source: 7D18018-06**		Prepared: 04/24/07 Analyzed: 04/27/07						
Sulfate	492	12.5	mg/L		490			0.407	20	
Chloride	361	12.5	"		367			1.65	20	
Matrix Spike (ED72411-MS1)		**Source: 7D23008-01**		Prepared & Analyzed: 04/24/07						
Chloride	291	5.00	mg/L	100	187	104	80-120			
Sulfate	166	5.00	"	100	74.0	92.0	80-120			
Matrix Spike (ED72411-MS2)		**Source: 7D18018-06**		Prepared: 04/24/07 Analyzed: 04/27/07						
Chloride	631	12.5	mg/L	250	367	106	80-120			
Sulfate	774	12.5	"	250	490	114	80-120			

Rice Operating Co.	Project: BD Jct. J-26	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 ED72703 - 6010B/No Digestion										
Blank (ED72703-BLK1)				Prepared & Analyzed: 04/27/07						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (ED72703-CCV1)				Prepared & Analyzed: 04/27/07						
Calcium	1.90		mg/L	2.00		95.0	85-115			
Magnesium	2.07		"	2.00		104	85-115			
Potassium	1.98		"	2.00		99.0	85-115			
Sodium	2.29		"	2.00		114	85-115			
Duplicate (ED72703-DUP1)	**Source: 7D18014-01**			Prepared & Analyzed: 04/27/07						
Calcium	140	4.05	mg/L		133			5.13	20	
Magnesium	76.4	1.80	"		76.8			0.522	20	
Potassium	15.7	0.600	"		15.6			0.639	20	
Sodium	350	4.30	"		358			2.26	20	

Rice Operating Co.	Project: BD Jct. J-26	Fax: (505) 397-1471
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: Celey D. Keene Date: 04/30/07

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

Project Name: BD Junction J-26

Project #:

Project Loc: T21S R37E Sec26 J ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 701801

25052

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: Dw=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: 8015B TPH: 418.1 8015M TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			4/18/2007	10:55		1	X						1		GW		X	X								X		X
02	Monitor Well #2			4/18/2007	11:50		1	X						1		GW		X	X								X		X
03	Monitor Well #3			4/18/2007	10:05		1	X						1		GW		X	X								X		X

Special Instructions:

Please email to : kpope@riceswd.com matt@riceswd.com rozanne@valornet.com
jpurvis@riceswd.com

Relinquished by: Rozanne Johnson	Date 4-18-07	Time 12:00	Received by: Mary Morton	Date 4-18-07	Time 12:01
Relinquished by: Mary Morton	Date 4-18-07	Time 1:55	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Fern	Date 4-18-07	Time 2:55

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N/a
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep.?	Y	N

by Courier? UPS DHL FedEx Lone Star

1 x Poly

Temperature Upon Receipt: -1.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 4-18-07 2:55

Lab ID #: 7D18019

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	-1.0 °C	
#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?	(Yes)	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)?	(Yes)	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?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	Yes	No	(Not Applicable)	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

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

Analytical Report 286346

for

Rice Operating Co.

Project Manager: Kristin Pope

BD Junction J-26

01-AUG-07

12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

01-AUG-07

Project Manager: **Kristin Pope**
Rice Operating Co.
122 West Taylor
Hobbs, NM 88240

Reference: XENCO Report No: **286346**
BD Junction J-26
Project Address: T21S R37E Sec 26 J ~ Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 286346. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 286346 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 286346

Rice Operating Co., Hobbs, NM

Project Name: BD Junction J-26

Project Id:

Contact: Kristin Pope

Project Location: T21S R37E Sec 26 J ~ Lea County New M

Date Received in Lab: Fri Jul-20-07 01:45 pm

Report Date: 01-AUG-07

Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	286346-001		286346-002		286346-003					
	Field Id:	Monitor Well # 1		Monitor Well # 2		Monitor Well # 3					
	Depth:										
	Matrix:	WATER		WATER		WATER					
	Sampled:	Jul-18-07 10:15		Jul-18-07 11:05		Jul-18-07 09:40					
Alkalinity by EPA 310.1	*Extracted:*										
	Analyzed:	Jul-26-07 11:50		Jul-26-07 11:50		Jul-26-07 11:50					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Alkalinity, Total (as CaCO3)		912	4.00	5700	4.00	976	4.00				
Inorganic Anions by EPA 300	*Extracted:*										
	Analyzed:	Jul-22-07 00:11		Jul-22-07 00:31		Jul-22-07 00:51					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Chloride		149	5.00	679	25.0	139	10.0				
Sulfate		210	5.00	228	25.0	158	10.0				
Metals per ICP by SW846 6010B	*Extracted:*	Jul-31-07 07:57		Jul-31-07 07:57		Jul-31-07 07:57					
	Analyzed:	Jul-31-07 14:19		Jul-31-07 14:21		Jul-31-07 14:22					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Calcium		83.4	1.00	203	1.00	84.5	1.00				
Magnesium		25.4	0.100	70.6	0.100	33.9	0.100				
Potassium		26.4	2.00	15.4	2.00	7.40	2.00				
Sodium		164	5.00	276	5.00	139	5.00				
Residue, Filterable (TDS) by EPA 160.1	*Extracted:*										
	Analyzed:	Jul-25-07 16:30		Jul-25-07 16:30		Jul-25-07 16:30					
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL				
Total dissolved solids		900	5.00	1720	5.00	848	5.00				

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

Blank Spike Recovery

Project Name: BD Junction J-26

Work Order #: 286346 **Project ID:**

Lab Batch #: 701209 **Sample:** 701209-1-BKS **Matrix:** Water
Date Analyzed: 07/26/2007 **Date Prepared:** 07/26/2007 **Analyst:** WRU
Reporting Units: mg/L **Batch #:** 1

Alkalinity by EPA 310.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Alkalinity, Total (as CaCO3)	ND	400	352	88	80-120	

Lab Batch #: 700978 **Sample:** 700978-1-BKS **Matrix:** Water
Date Analyzed: 07/21/2007 **Date Prepared:** 07/21/2007 **Analyst:** IRO
Reporting Units: mg/L **Batch #:** 1

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Chloride	ND	10.0	10.3	103	90-110	
Sulfate	ND	10.0	9.36	94	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: BD Junction J-26

Work Order #: 286346 **Project ID:**

Analyst: DAT **Date Prepared:** 07/31/2007 **Date Analyzed:** 07/31/2007

Lab Batch ID: 701348 **Sample:** 497757-1-BKS **Batch #:** 1 **Matrix:** Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Metals per ICP by SW846 6010B **Analytes**	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Calcium	ND	1.00	1.06	106	1.0	1.03	103	3	75-125	25	
Magnesium	ND	1.00	1.08	108	1.0	1.09	109	1	75-125	25	
Potassium	ND	10.0	10.3	103	10.0	10.3	103	0	75-125	25	
Sodium	ND	11.0	10.8	98	11.0	11.0	100	2	75-125	25	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: BD Junction J-26

Work Order #: 286346
Lab Batch #: 700978
Date Analyzed: 07/21/2007
QC- Sample ID: 286343-001 S
Reporting Units: mg/L

Date Prepared: 07/21/2007
Batch #: 1

Project ID:
Analyst: IRO
Matrix: Water

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	661	250	907	98	90-110	
Sulfate	238	250	464	90	90-110	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: BD Junction J-26

Work Order # : 286346 **Project ID:**

Lab Batch ID: 701348 **QC- Sample ID:** 286713-001 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/31/2007 **Date Prepared:** 07/31/2007 **Analyst:** DAT

Reporting Units: mg/L

Metals per ICP by SW846 6010B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Calcium	86.7	1.00	89.9	320	1.00	89.8	310	3	75-125	20	X
Magnesium	9.03	1.00	10.1	107	1.00	9.84	81	28	75-125	20	F
Potassium	34.0	10.0	45.8	118	10.0	45.7	117	1	75-125	20	
Sodium	150	11.0	166	145	11.0	165	136	6	75-125	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = Sêe Narrative, EQL = Estiinated Quantitation Limit

Sample Duplicate Recovery

Project Name: BD Junction J-26

Work Order #: 286346

Lab Batch #: 701209 **Project ID:**
Date Analyzed: 07/26/2007 **Date Prepared:** 07/26/2007 **Analyst:** WRU
QC- Sample ID: 286342-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Alkalinity by EPA 310.1 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	8900	8900	0	20	

Lab Batch #: 700978
Date Analyzed: 07/21/2007 **Date Prepared:** 07/21/2007 **Analyst:** IRO
QC- Sample ID: 286343-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by EPA 300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	661	663	0	20	
Sulfate	238	240	1	20	

Lab Batch #: 701044
Date Analyzed: 07/25/2007 **Date Prepared:** 07/25/2007 **Analyst:** IRO
QC- Sample ID: 286343-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Residue, Filterable (TDS) by EPA 160.1 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	2090	2160	3	30	

Lab Batch #: 701044
Date Analyzed: 07/25/2007 **Date Prepared:** 07/25/2007 **Analyst:** IRO
QC- Sample ID: 286396-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Residue, Filterable (TDS) by EPA 160.1 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	2560	2580	1	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

Project Name: BD Junction J-26

Project #:

Project Loc: T21S R37E Sec26 J ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 286346

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix (DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other)	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			7/18/2007	10:15		1	X						1		GW			X	X								X			X
02	Monitor Well #2			7/18/2007	11:05		1	X						1		GW			X	X								X			X
03	Monitor Well #3			7/18/2007	9:40		1	X						1		GW			X	X								X			X

Analyze For: TCLP: TOTAL:

Special Instructions:
Please email to: kpope@riceswd.com, jpurvis@riceswd.com, matt@riceswd.com, rozanne@valornet.com

Relinquished by	Date	Time	Received by	Date	Time
Rozanne Johnson	7-20-07	9:00	James Johnson	7-20-07	9:02
James Johnson	7-20-07	1:45			
			Received by ELOT: Andrea	7-20-07	1:45

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 7.20.07 1:45

Lab ID #: 286396

Initials: GL

Sample Receipt Checklist

				Client Initials
#1 Temperature of container/ cooler?	(Yes)	No	-2.0 °C	Ice/ Frozen
#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?	(Yes)	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)?	(Yes)	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?	(Yes)	No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

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

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 10/12/07
Reporting Date: 10/16/07
Project Number: NOT GIVEN
Project Name: BD JUNCTION J-26
Project Location: T21S R37E SEC26 J~LEA COUNTY, NM

Sampling Date: 10/10/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μS/cm)	T-Alkalinity ($mgCaCO_3/L$)
ANALYSIS DATE:		10/15/07	10/15/07	10/15/07	10/12/07	10/15/07	10/15/07
H13494-1	MONITOR WELL #1	166	59.9	28.2	28.7	1,397	200
H13494-2	MONITOR WELL #2	323	174	68.6	10.7	3,040	192
H13494-3	MONITOR WELL #3	163	51.9	33.1	6.43	1,345	232
Quality Control		NR	47.9	51.6	1.87	9,770	NR
True Value QC		NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	95.8	103	93.6	97.7	NR
Relative Percent Difference		NR	2.7	< 0.1	< 0.1	0.4	NR
METHODS:			SM3500-Ca-D	3500-Mg E	8049	120.1	310.1

LAB NUMBER	SAMPLE ID	Cl^- (mg/L)	SO_4 (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		10/15/07	10/15/07	10/15/07	10/15/07	10/15/07	10/14/07
H13494-1	MONITOR WELL #1	160	228	0	244	7.90	915
H13494-2	MONITOR WELL #2	730	204	0	234	7.61	1,838
H13494-3	MONITOR WELL #3	164	160	0	283	7.77	857
Quality Control		500	22.6	NR	988	6.99	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	90.4	NR	98.8	99.9	NR
Relative Percent Difference		2.0	15.5	NR	1.2	0.1	NR
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Kristen Sapiobo
Chemist

10/16/07
Date

101 East Marland - Hobbs, New Mexico 88240
Tel (505) 393-2326
Fax (505) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: RICE Operating Company	BILL TO Company: RICE Operating Company PO#
Project Manager: Kristin Farris-Pope, Project Scientist	Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone#: (505) 393-9174 Fax#: (505)397-1471
Phone #: (505) 393-9174	Fax #: (505) 397-1471
Project #:	Project Name: BD Junction J-26
Project Location: T21S R37E Sec26 J ~ Lea County New Mexico	Sampler Signature: Rozanne Johnson (505)631-9310 rozanne@valornet.com

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO_3	$NaHSO_4$	H_2SO_4	ICE (1-1Liter HDPE)	NONE	SAMPLING: DATE (2007)	TIME
13444-1	Monitor Well #1	G	1	X								1		10-10	17:15
-2	Monitor Well #2	G	1	X								1		10-10	18:20
-3	Monitor Well #3	G	1	X								1		10-10	16:25

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content		Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids	Chlorides	Turn Around Time:~ 24 Hours
																	X	X	X		
																	X	X	X		
																	X	X	X		

Relinquished by: Rozanne Johnson	Date: 10-12-07	Time: 10:25	Received by:
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff) Burgess for Cobrs 10/12/07 10:26
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool: Yes ☒ No ☐ Intact: Yes ☒ No ☐		CHECKED BY: (Initials)

Phone Results	☐	Yes	☐	No
Fax Results	☐	Yes	☐	No Additional Fax Number:

REMARKS:

Email Results to: kpope@riceswd.com
lweinheimer@riceswd.com
rozanne@valornet.com

APPENDIX C

Well Sampling Data Forms

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #1

SYSTEM: BD DATE: February 8, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 52.80 Feet

DEPTH TO WATER: 39.52 Feet

HEIGHT OF WATER COLUMN: 13.28 Feet 2 In. Well Diameter

WELL VOLUME: 2.1 Gal. 8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
13:15	19.7	1.61	7.57	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #1

SYSTEM: BD DATE: April 18, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 52.80 Feet

DEPTH TO WATER: 39.66 Feet

HEIGHT OF WATER COLUMN: 13.14 Feet

WELL VOLUME: 2.1 Gal.

2 In. Well Diameter

8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:55	20.6	1.49	7.59	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #1

SYSTEM: BD DATE: July 18, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 52.80 Feet

DEPTH TO WATER: 39.86 Feet

HEIGHT OF WATER COLUMN: 12.94 Feet

WELL VOLUME: 2.1 Gal.

2 In. Well Diameter

8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:15	21.0	1.46	7.61	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #1

SYSTEM: BD DATE: October 10, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 52.80 Feet

DEPTH TO WATER: 40.07 Feet

HEIGHT OF WATER COLUMN: 12.73 Feet 2 In. Well Diameter

WELL VOLUME: 2.0 Gal. 8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
17:15	20.5	1.41	7.63	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #2

SYSTEM: BD DATE: February 8, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 58.47 Feet
DEPTH TO WATER: 40.03 Feet
HEIGHT OF WATER COLUMN: 18.44 Feet
WELL VOLUME: 3.0 Gal.

2 In. Well Diameter
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
14:10	19.8	1.99	7.43	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #2

SYSTEM: BD DATE: April 18, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 58.47 Feet
DEPTH TO WATER: 40.09 Feet
HEIGHT OF WATER COLUMN: 18.38 Feet
WELL VOLUME: 2.9 Gal.

2 In. Well Diameter
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:50	20.6	2.28	7.40	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company*
WELL ID: Monitor Well #2
SYSTEM: BD
DATE: July 18, 2007
SITE LOCATION: Junction J-26
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump
SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 58.47 Feet
DEPTH TO WATER: 40.30 Feet
HEIGHT OF WATER COLUMN: 18.17 Feet
WELL VOLUME: 2.9 Gal.

2 In. Well Diameter
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:05	21.2	2.92	7.40	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #2

SYSTEM: BD DATE: October 10, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 58.47 Feet

DEPTH TO WATER: 40.52 Feet

HEIGHT OF WATER COLUMN: 17.95 Feet

WELL VOLUME: 2.9 Gal.

2 In. Well Diameter

10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
18:20	20.4	3.07	7.50	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #3

SYSTEM: BD DATE: February 8, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 60.05 Feet

DEPTH TO WATER: 39.01 Feet

HEIGHT OF WATER COLUMN: 21.04 Feet

WELL VOLUME: 3.4 Gal.

2 In. Well Diameter

15 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:35	19.6	1.35	7.42	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #3

SYSTEM: BD DATE: April 18, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 60.05 Feet
DEPTH TO WATER: 39.16 Feet
HEIGHT OF WATER COLUMN: 20.89 Feet
WELL VOLUME: 3.3 Gal.

2 In. Well Diameter
15 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:05	20.7	1.35	7.34	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: Monitor Well #3

SYSTEM: BD DATE: July 18, 2007

SITE LOCATION: Junction J-26 SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump

SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 60.05 Feet

DEPTH TO WATER: 39.40 Feet

HEIGHT OF WATER COLUMN: 20.65 Feet

WELL VOLUME: 3.3 Gal.

2 In. Well Diameter

15 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
9:40	20.9	1.36	7.41	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Samples delivered to Environmental Lab of Texas in Odessa, TX for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company*
WELL ID: Monitor Well #3
SYSTEM: BD
DATE: October 10, 2007
SITE LOCATION: Junction J-26
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☑ Pump, Type: Purge Pump
SAMPLING METHOD: ☐ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other:

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 60.05 Feet
DEPTH TO WATER: 39.60 Feet
HEIGHT OF WATER COLUMN: 20.45 Feet
WELL VOLUME: 3.3 Gal.

2 In. Well Diameter
15 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
16:25	21.0	1.38	7.44	Clear with no odor.
				Samples Collected
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for Major Ions, and TDS analysis.