AP – 049

ANNUAL GW MONITOR REPORT

DATE: 2006

AP-49

Highlander Environmental Corp.

Annual GW Mon. Report 2006

Midland, Texas

CERTIFIED MAIL
RETURN RECEIPT NO. 7005 1160 0005 3780 7341

2007 MAR 14 PM 4 02

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

Re: 2006 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Justis Saltwater Disposal System (SWD) Well #H-2, Unit H, Section 2, T-26-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-01 (AP-49)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2006 Annual Summary Report for the Rice Operating Company (ROC) Justis SWD Well #H-2 site located in the Justis Salt Water Disposal System (AP-49).

Background

On August 2, 2001, ROC submitted a Redwood Tank Replacement Closure Plan with the NMOCD. Tank replacement activities began at the Justis H-2 SWD facility on November 6, 2001 and are complete. On December 12, 2002, ROC submitted a Redwood Tank and Emergency Pit Closure Report for the Justis SWD Facility H-2. Soil samples were collected during tank replacement and sample results prompted the placement of monitor wells.

In January 2002, three (3) monitor wells were installed to evaluate groundwater in the vicinity of the H-2 injection facility. Originally, two monitor wells, MW-1 and MW-2 showed elevated chloride levels. On January 18, 2002, the NMOCD was notified of groundwater impact. After several quarterly sampling events, MW-2 continued to show elevated chloride levels. As a result, two (2) additional monitor wells were installed in February 2004.

On May 5, 2005, Daniel Sanchez with the NMOCD requested a Rule 19, Stage I Abatement Plan for this site. On July 13, 2005 a Stage I Abatement Plan was submitted to the NMOCD. The Stage I Abatement Plan approval was received, dated February 23, 2006.

Stage 2 Abatement Plan

A Stage 2 Abatement Plan was prepared and submitted to the NMOCD on May 25, 2006. On June 7, 2006, the NMOCD certified the plan "Administratively Complete". A public notice was submitted and approved on July 21, 2006. Final approval for the Stage 2 Abatement plan was received on October 3, 2006. The abatement system was installed on November 6, 2006 and started. As of January 3, 2007, a total of 14,707 gallons of water had been pumped from MW-2, with 9,700 gallons re-injected at the site, and 5007 gallons sent to disposal. All remediated water that is injected into MW-1 at the site is tested for chloride and conductivity prior to injection. The overall unit treatment efficiency in 2006 was 66%, with the 34% reject water waste stream being sent to disposal. An R/O System Operating summary is included in Appendix A.

Monitor Well Sampling

All five of the site monitoring wells were sampled on February 27, June 14, September 13 and December 5, 2006 (Quarterly). Prior to sampling, the wells were gauged for static water levels. All monitor well caps were opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

Each well was purged using a portable submersible pump. Approximately three casing volumes of water were purged from each well prior to sampling. Between wells, 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.

Each well was 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. All of 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 B.

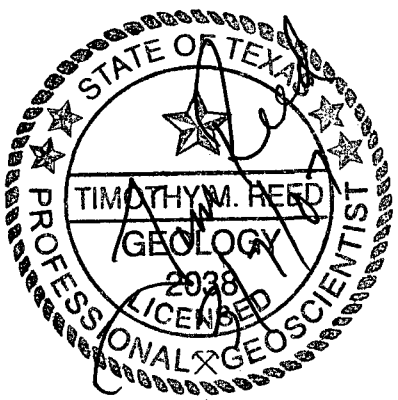
Water table maps were generated for all four quarterly sampling events, using the water level measurement data and are included as Figures 3-6. The general hydraulic gradient appears to be consistently towards the north-northwest.

Monitor Well Sample Results

Chloride concentrations from monitor wells MW-3, MW-4 and MW-5 were all below the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L during all four quarters of 2006. Chloride concentrations in MW-1 fluctuated from 206 mg/L to 430 mg/L. MW-2 exceeded the WQCC standard for all four quarters. No BTEX concentrations were detected at or above reporting limits in 2006. Cumulative analytical data is summarized in the Table Section of this report. Water levels rose slightly in 2006.

Conclusions

1. In 2006, there were no BTEX constituents at or above the New Mexico Water Quality Control Commission (WQCC) standards.
2. Chloride and TDS concentrations from monitor wells MW-3, MW-4 and MW-5 were all below the New Mexico Water Quality Control Commission (WQCC) standards of 250 mg/L and 1000 mg/L, respectively, during all four quarters of 2006. MW-1 fluctuated between 206 mg/L and 430 mg/L. Only MW-2 exceeded the WQCC standard for all four quarters.
3. In 2006, water levels rose slightly. The hydraulic gradient continues to trend towards the north-northwest, although the regional hydraulic gradient is towards the southeast.
4. The Stage 2 Abatement Plan has been implemented and the remediation system will be monitored and maintained throughout 2007.
5. 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.



Respectfully Submitted,
HIGHLANDER ENVIRONMENTAL CORP.

Timothy M. Reed, P.G.
Vice President

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

FIGURES

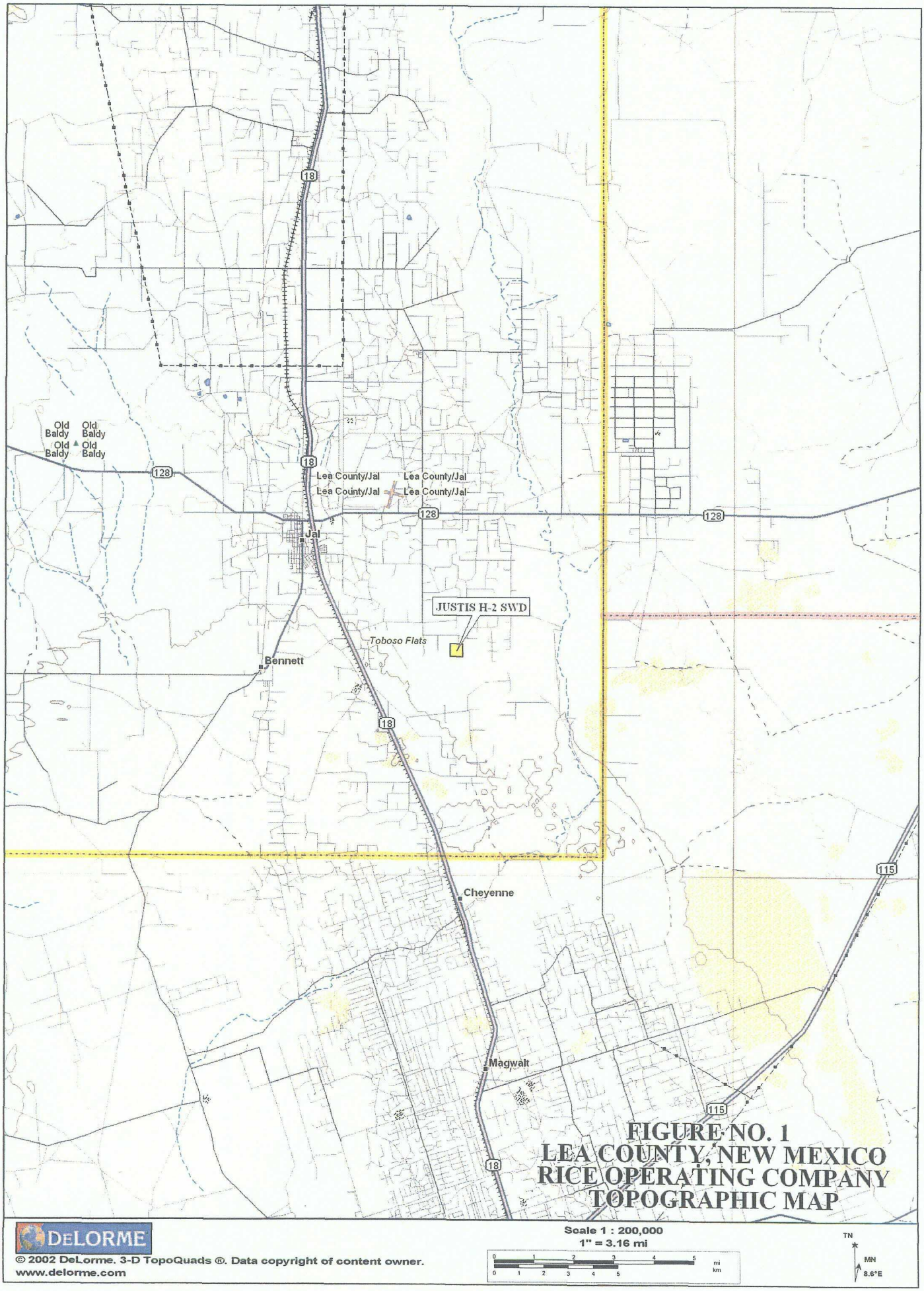


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
TOPOGRAPHIC MAP

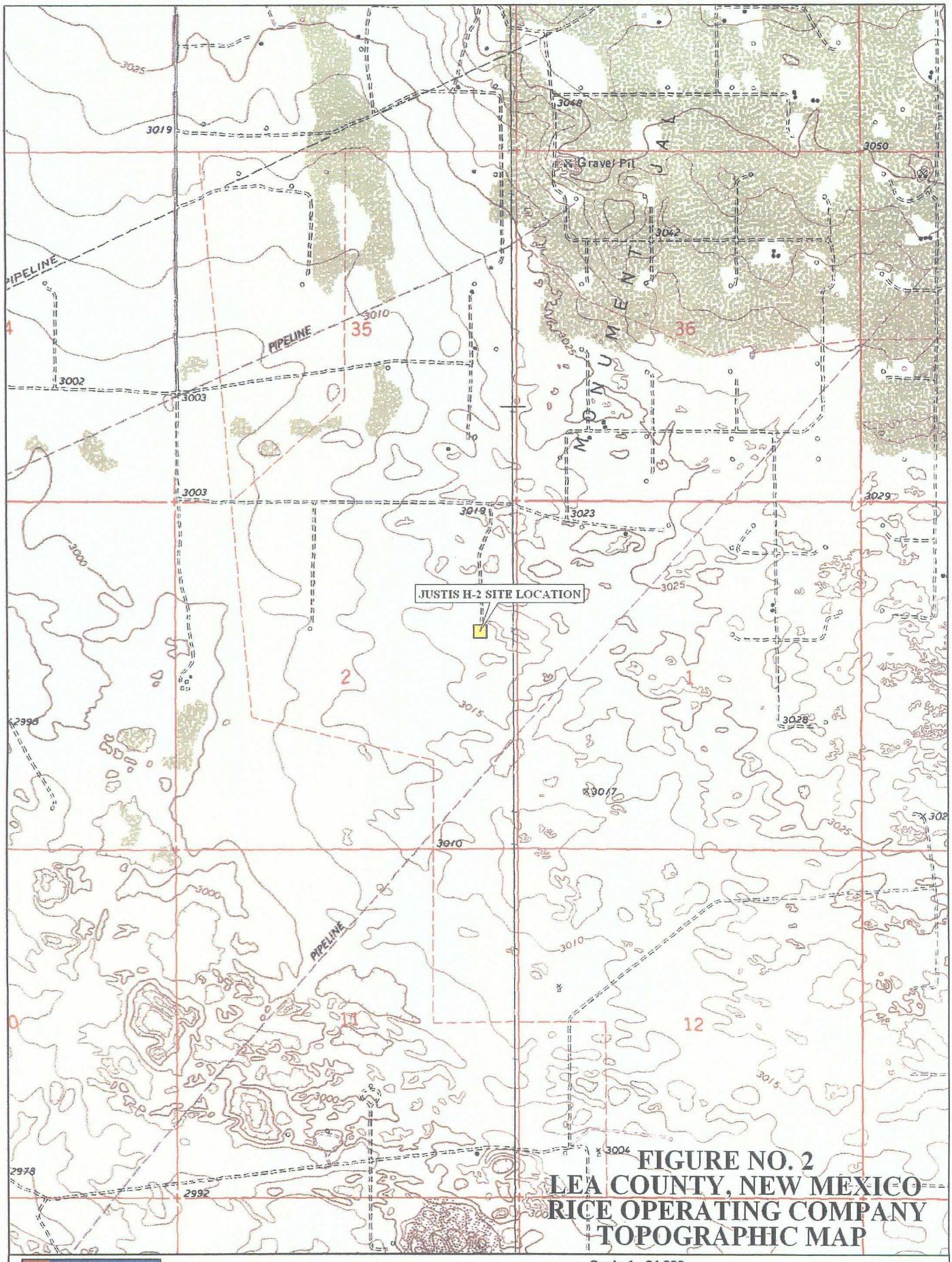


FIGURE NO. 2
LEA COUNTY, NEW MEXICO
RICE OPERATING COMPANY
TOPOGRAPHIC MAP

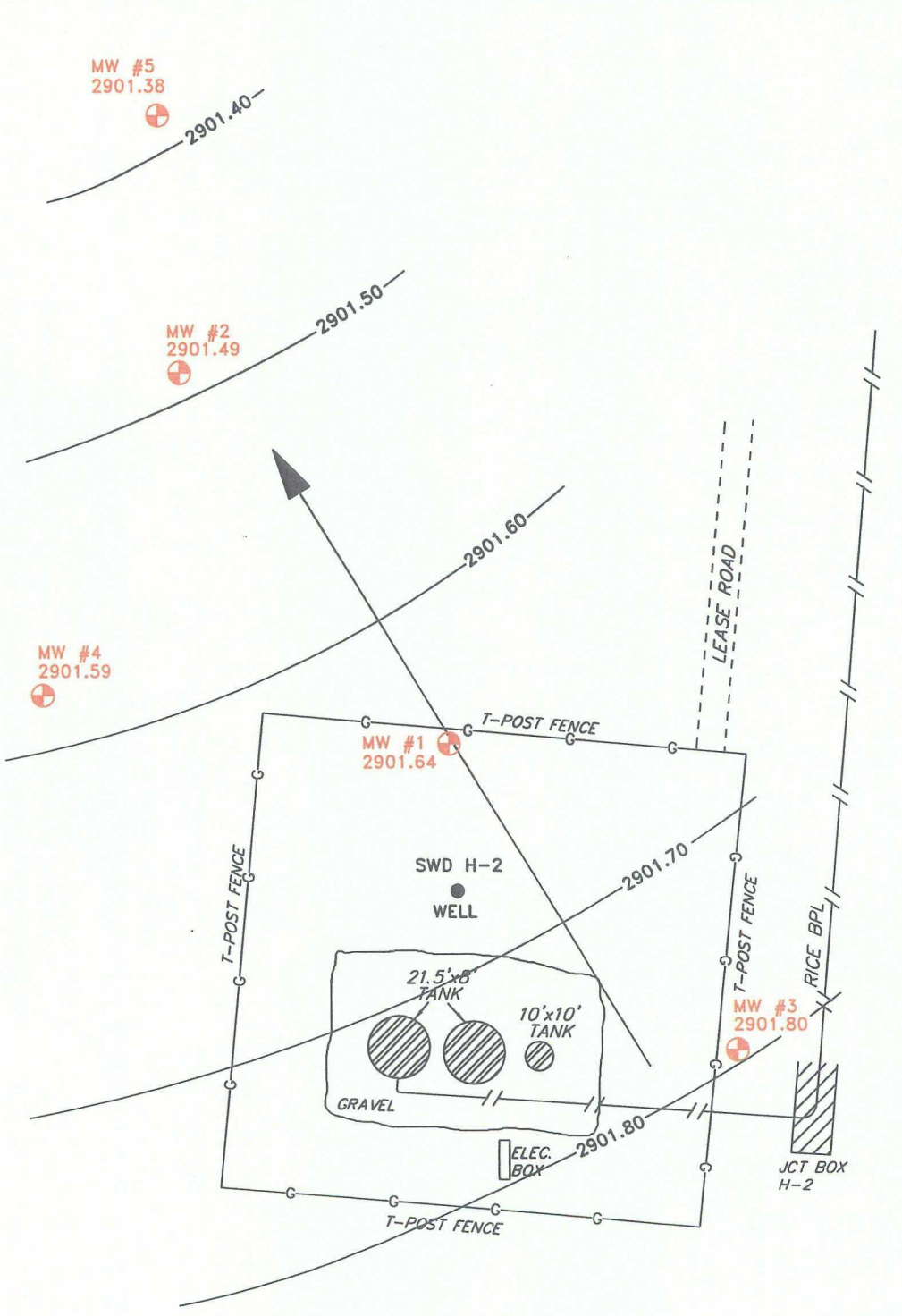
DeLORME

www.delorme.com

Scale 1 : 24,000
1" = 2000 ft

0 600 1200 1800 2400 3000 ft
0 200 400 600 800 1000 m

TN
MN
8.6°E



WELL#	ELEVATION (PVC)
MW #1	3023.45'
MW #2	3022.89'
MW #3	3019.98'
MW #4	3023.15'
MW #5	3021.06'

MONITOR WELL LOCATION

SCALE: 1"=60'

60 0 60

FIGURE NO. 3

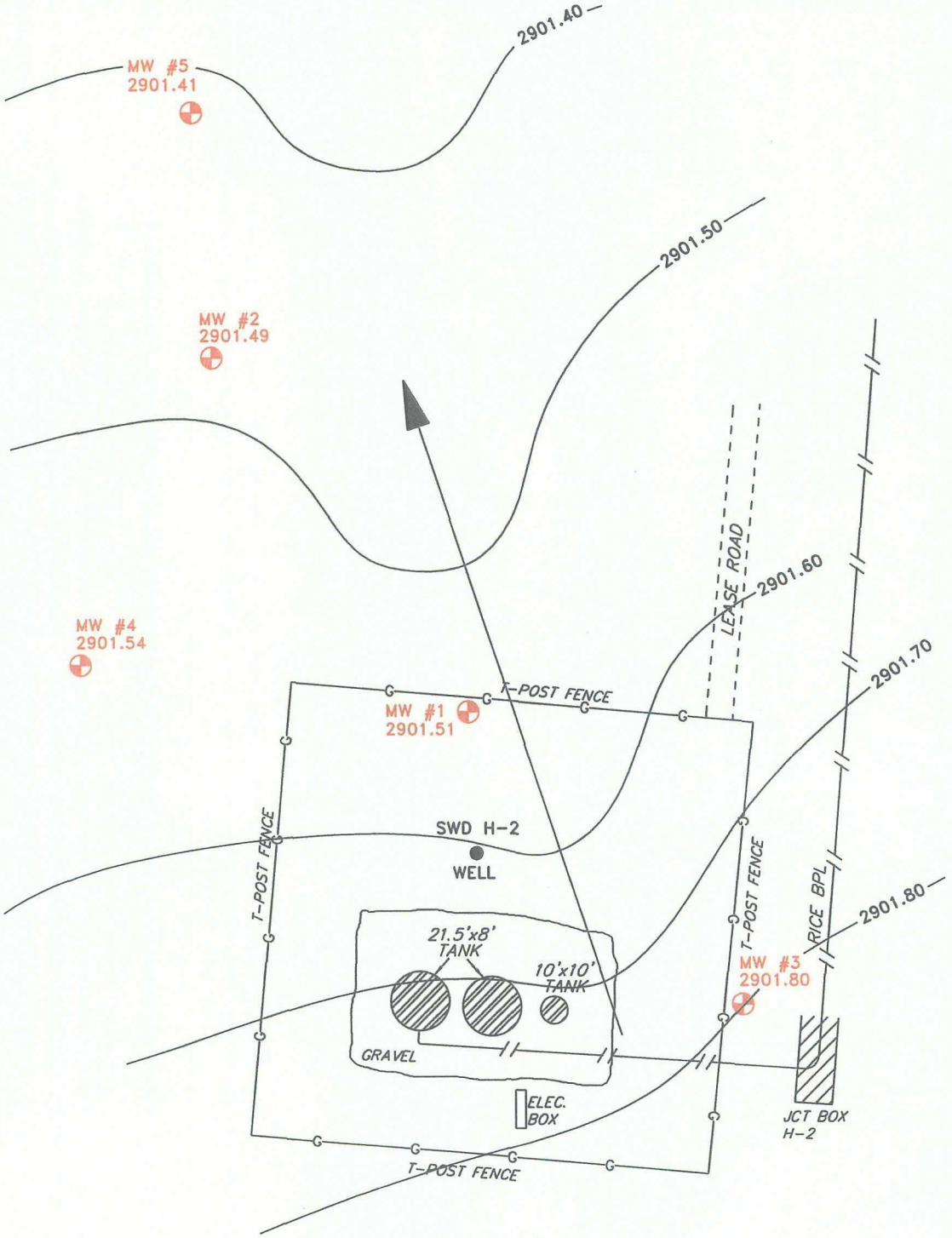
LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

JUSTIS H-2 SWD
2/27/06 WATER TABLE MAP

DATE: 3/6/06
DWG. BY: JJ
FILE: C:\RICE\1863\WTM 2-06

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



WELL#	ELEVATION (PVC)
MW #1	3023.45'
MW #2	3022.89'
MW #3	3019.98'
MW #4	3023.15'
MW #5	3021.06'

MONITOR WELL LOCATION

SCALE: 1"=60'

60 0 60

FIGURE NO. 4

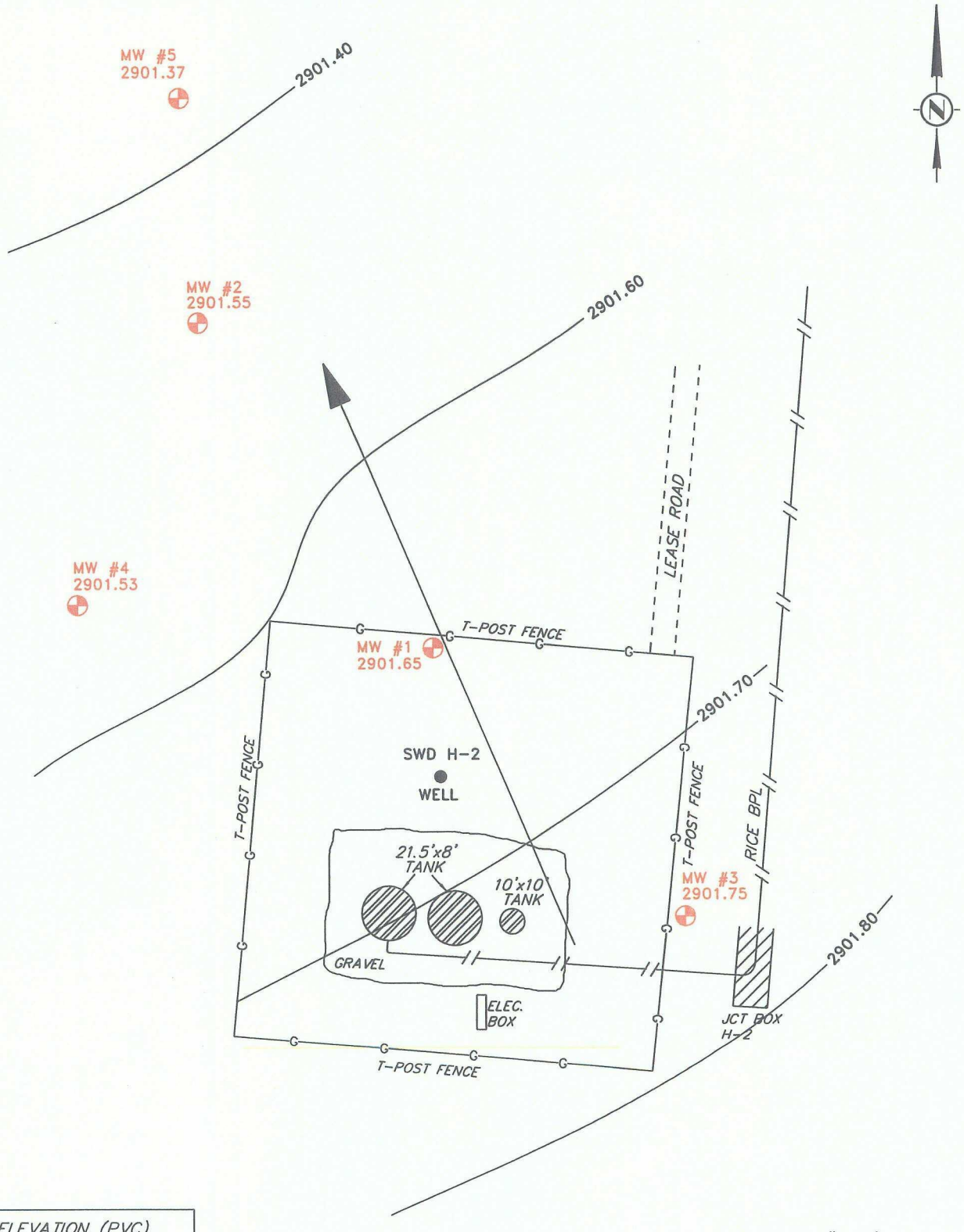
LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

JUSTIS H-2 SWD
6/14/06 WATER TABLE MAP

DATE: 2/8/07
DWG. BY: JJ
FILE: C:\RICE\1863\WTM 2-06

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



WELL#	ELEVATION (PVC)
MW #1	3023.45'
MW #2	3022.89'
MW #3	3019.98'
MW #4	3023.15'
MW #5	3021.06'

MONITOR WELL LOCATION

SCALE: 1"=60'

60 0 60

FIGURE NO. 5

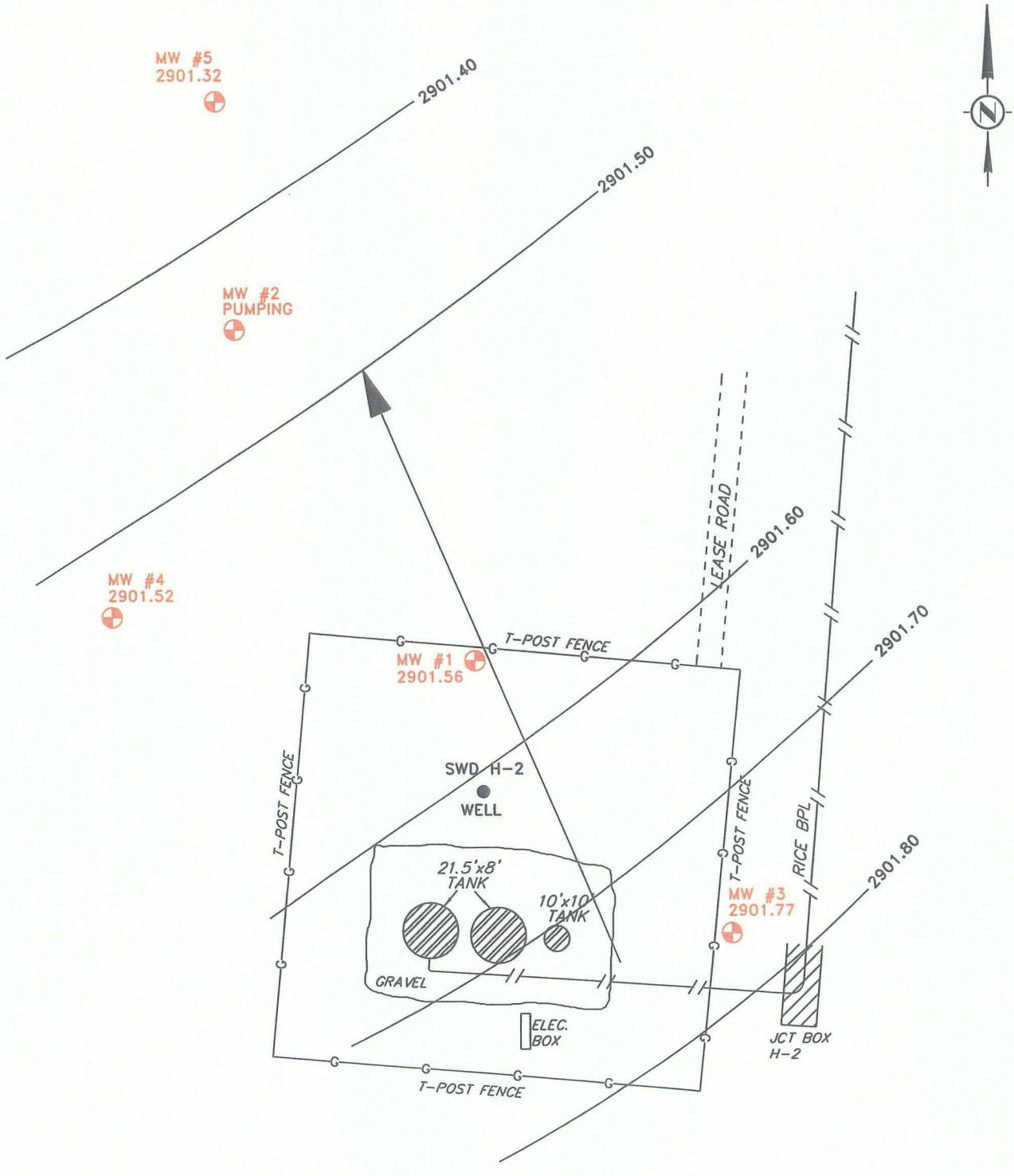
LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

JUSTIS H-2 SWD
9/13/06 WATER TABLE MAP

DATE: 2/8/07
DWG. BY: JJ
FILE: C:\RICE\1863\WTM 2-06

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



WELL#	ELEVATION (PVC)
MW #1	3023.45'
MW #2	3022.89'
MW #3	3019.98'
MW #4	3023.15'
MW #5	3021.06'

MONITOR WELL LOCATION

SCALE: 1"=60'

60 0 60

FIGURE NO. 6

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY

JUSTIS H-2 SWD
12/5/06 WATER TABLE MAP

DATE: 2/8/07
DWG. BY: JJ
FILE: C:\RICE\1863\WTM 2-06

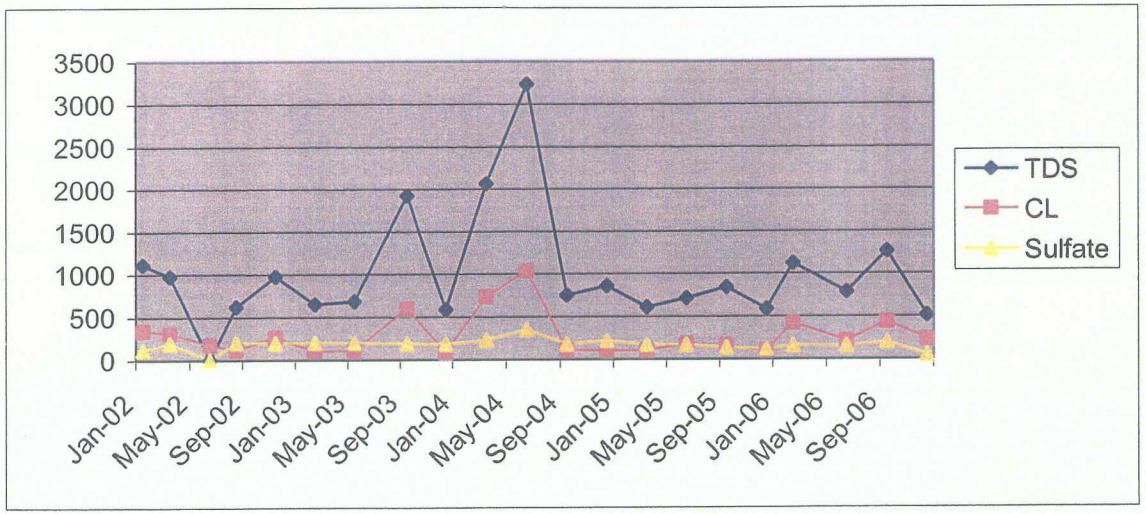
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

TABLES

MW-1

Rice Engineering Operating H-2 Lea County, New Mexico													
MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	116.20	145.00	18.80	56.4	01/03/02	336	1112	<0.002	<0.002	<0.002	<0.002	116	
1	XXX	XXX	XXX	XXX	03/01/02	301	971	XXX	XXX	XXX	XXX	190	
1	XXX	XXX	XXX	XXX	06/10/02	173	XXX	0.001	0.008	0.01	0.066	XXX	
1	116.20	137.00	XXX	66.0	08/16/02	111	619	<0.001	<0.001	<0.001	<0.001	202	
1	123.32	144.00	XXX	60.0	11/12/02	257	971	<0.001	<0.001	<0.001	<0.001	194	
1	122.95	144.00	XXX	70.0	02/13/03	97.5	647	<0.001	<0.001	<0.001	<0.001	200	
1	123.34	144.00	XXX	70.0	05/20/03	102	682	<0.001	<0.001	<0.001	<0.001	196	
1	122.94	144.00	XXX	70.0	09/16/03	594	1920	<0.001	<0.001	<0.001	<0.001	186	
1	123.19	144.00	XXX	70.0	12/16/03	81.5	587	0.013	<0.001	<0.001	<0.001	180	
1	122.43	144.00	XXX	70.0	03/11/04	727	2060	<0.001	<0.001	<0.001	<0.001	227	
1	122.24	144.00	XXX	70.0	06/28/04	1030	3230	0.0056	<0.001	<0.001	<0.001	349	
1	122.22	144.00	XXX	70.0	09/23/04	106	749	<0.001	<0.001	<0.001	<0.001	175	
1	122.18	144.00	XXX	68.0	12/21/04	93.1	858	<0.001	<0.001	<0.001	0.00108	215	
1	121.97	144.00	XXX	75.0	03/29/05	98.2	608	<0.001	<0.001	<0.001	<0.001	169	
1	122.08	144.00	XXX	80.0	06/16/05	173	711	<0.001	<0.001	<0.001	<0.001	166	
1	XXX	XXX	XXX	XXX	09/15/05	151	840	<0.001	<0.001	<0.001	<0.001	133	
1	122.12	153.00	31.50	100.0	12/05/05	93.5	586	<0.001	<0.001	<0.001	<0.001	114	
1	121.81	153.00	31.80	100.0	02/27/06	414	1120	<0.001	<0.001	<0.001	<0.001	157	
1	121.94	153.00	31.70	100.0	06/14/06	206	782	<0.001	<0.001	<0.001	<0.001	151	
1	121.80	153.00	31.80	100.0	09/13/06	430	1,260	<0.001	<0.001	<0.001	<0.001	194	
1	121.89	153.00	31.70	100.0	12/05/06	223	512	<0.001	<0.001	<0.001	<0.001	47.6	

MW-1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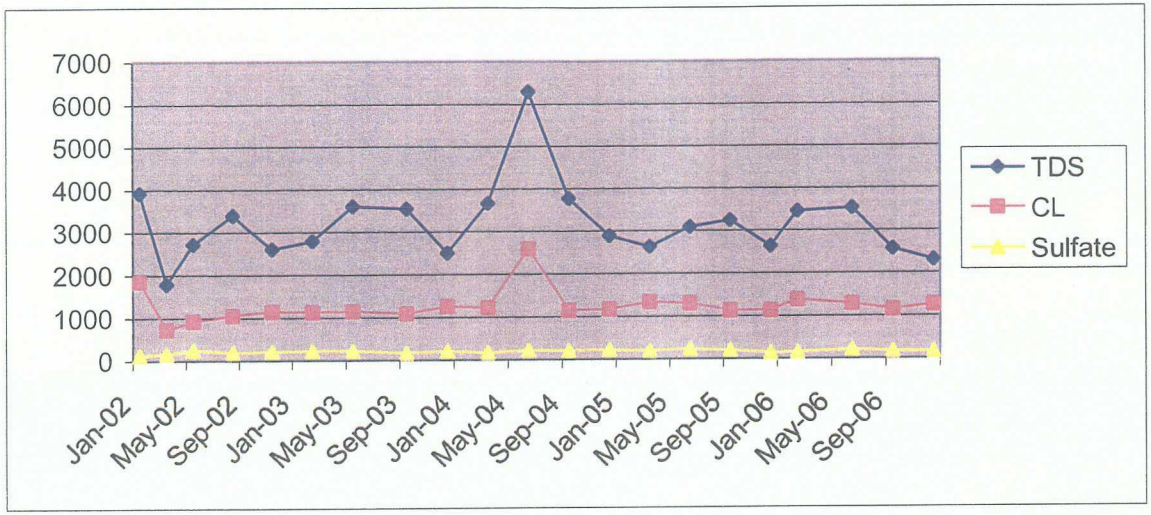
Sep-05
Jan-06
May-06
Sep-06
TDS
CL
Sulfate

Rice Engineering Operating
H-2
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	122.00	142.60	13.40	40.3	01/07/02	1839	3908	<0.002	<0.002	<0.002	<0.002	120	
2	XXX	XXX	XXX	XXX	03/01/02	700	1780	XXX	XXX	XXX	XXX	150	
2	XXX	XXX	XXX	XXX	05/23/02	904	2710	<0.001	<0.001	<0.001	<0.001	243	
2	121.85	142.00	XXX	25.0	08/16/02	1040	3390	<0.001	<0.001	<0.001	<0.001	188	
2	122.10	142.00	XXX	25.0	11/12/02	1130	2600	0.002	0.003	<0.001	<0.002	200	
2	121.71	142.00	XXX	25.0	02/13/03	1110	2780	<0.001	<0.001	<0.001	<0.001	216	
2	122.08	142.00	XXX	25.0	05/20/03	1130	3600	<0.001	<0.001	<0.001	<0.001	215	
2	121.70	142.00	XXX	25.0	09/16/03	1070	3540	<0.001	<0.001	<0.001	<0.001	167	
2	122.00	142.00	XXX	30.0	12/16/03	1230	2490	0.032	0.003	<0.001	<0.001	202	
2	121.87	142.00	XXX	30.0	03/11/04	1200	3660	<0.001	<0.001	<0.001	<0.001	164	
2	121.74	142.00	XXX	30.0	06/28/04	2570	6290	0.0112	<0.001	<0.001	<0.001	208	
2	121.70	142.00	XXX	25.0	09/23/04	1130	3760	<0.001	<0.001	<0.001	<0.001	198	
2	121.65	142.00	XXX	10.0	12/21/04	1150	2877	<0.001	<0.001	<0.001	<0.001	210	
2	121.45	142.00	XXX	25.0	03/29/05	1310	2620	<0.001	<0.001	<0.001	<0.001	186	
2	121.58	142.00	XXX	30.0	06/16/05	1280	3080	<0.001	<0.001	<0.001	<0.001	221	
2	XXX	XXX	XXX	XXX	09/15/05	1110	3240	<0.001	<0.001	<0.001	<0.001	196	
2	121.52	142.60	3.40	20.0	12/05/05	1110	2630	<0.001	<0.001	<0.001	<0.001	134	
2	121.40	142.60	3.40	20.0	02/27/06	1360	3450	<0.001	<0.001	<0.001	<0.001	139	
2	121.40	142.60	3.40	15.0	06/14/06	1260	3520	<0.001	<0.001	<0.001	<0.001	204	
2	121.34	142.60	3.40	15.0	09/13/06	1130	2,560	<0.001	<0.001	<0.001	<0.001	166	
2	Pump	142.60	XXX	XXX	12/05/06	1240	2300	<0.001	<0.001	<0.001	<0.001	156	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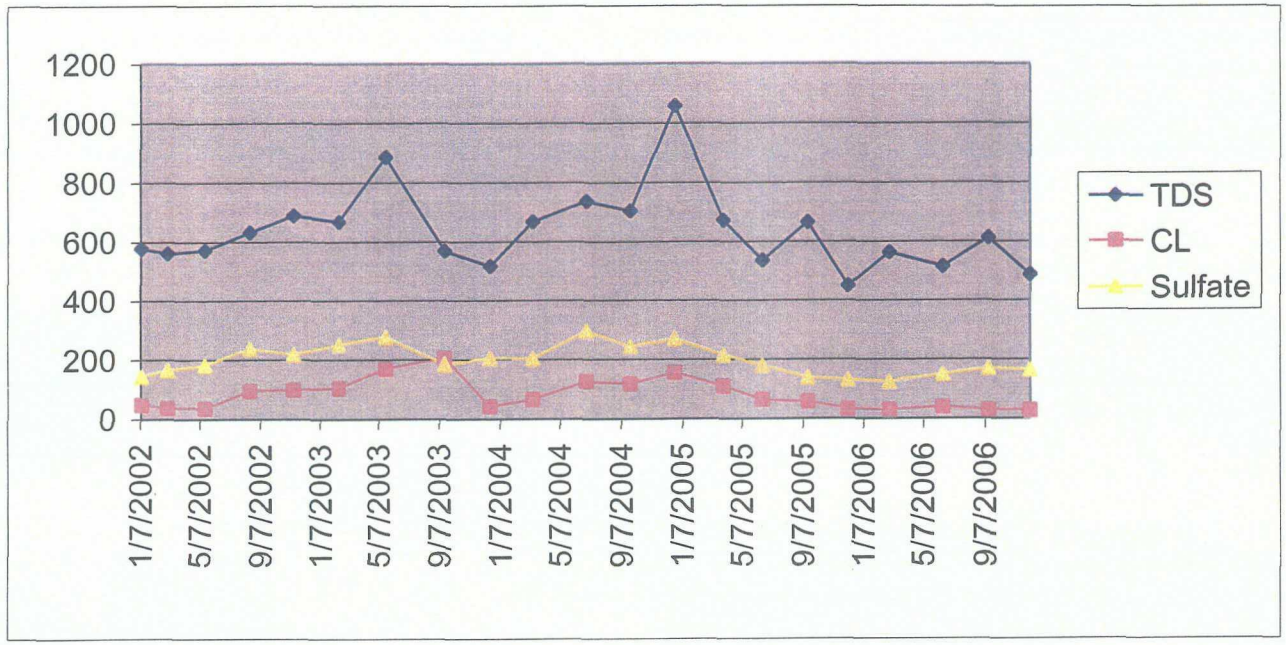
May-05
Sep-05
Jan-06
May-06
Sep-06
TDS
CL
Sulfate

Rice Engineering Operating
H-2
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	122.10	137.50	10.00	30.1	01/07/02	48	577	<0.005	<0.005	<0.005	<0.015	145	
3	XXX	XXX	XXX	XXX	03/01/02	37.2	561	XXX	XXX	XXX	XXX	167	
3	XXX	XXX	XXX	XXX	05/16/02	35.4	570	<0.001	<0.001	<0.001	<0.001	182	
3	118.68	133.00	XXX	20.0	08/16/02	93.1	631	<0.001	<0.001	<0.001	<0.001	238	
3	118.90	133.00	XXX	25.0	11/12/02	97.5	688	0.030	0.014	0.002	0.003	219	
3	118.53	133.00	XXX	25.0	02/13/03	102	666	<0.001	<0.001	<0.001	<0.001	250	
3	118.87	133.00	XXX	25.0	05/20/03	168	885	<0.001	<0.001	<0.001	<0.001	278	
3	118.53	133.00	XXX	25.0	09/16/03	204	568	<0.001	<0.001	<0.001	<0.001	184	
3	118.53	133.00	XXX	25.0	09/16/03	204	568	<0.001	<0.001	<0.001	<0.001	184	
3	118.79	133.00	XXX	30.0	12/16/03	40.8	517	0.013	<0.001	<0.001	<0.001	204	
3	118.71	133.00	XXX	30.0	03/11/04	65	666	<0.001	<0.001	<0.001	<0.001	203	
3	118.53	133.00	XXX	30.0	06/28/04	124	735	0.0124	<0.001	<0.001	<0.001	295	
3	118.52	133.00	XXX	25.0	09/23/04	115	703	0.00113	<0.001	<0.001	<0.001	242	
3	118.52	133.00	XXX	7.0	12/21/04	154	1057	0.0127	<0.001	0.00144	<0.001	272	
3	118.31	133.00	XXX	25.0	03/29/05	108	670	<0.001	<0.001	<0.001	<0.001	215	
3	118.41	133.00	XXX	30.0	06/16/05	62.4	535	<0.001	<0.001	<0.001	<0.001	180	
3	XXX	XXX	XXX	XXX	09/15/05	56.4	664	<0.001	<0.001	<0.001	<0.001	139	
3	118.25	133.70	2.50	20.0	12/05/05	30.7	450	<0.001	<0.001	<0.001	<0.001	131	
3	118.18	133.70	2.50	15.0	02/27/06	26.8	562	<0.001	<0.001	<0.001	<0.001	123	
3	118.18	133.70	2.50	15.0	06/14/06	38.3	514	<0.001	<0.001	<0.001	<0.001	151	
3	118.23	133.70	2.50	15.0	09/13/06	28	610	<0.001	<0.001	<0.001	<0.001	170	
3	118.21	133.70	2.50	10.0	12/05/06	26.1	486	<0.001	<0.001	<0.001	<0.001	164	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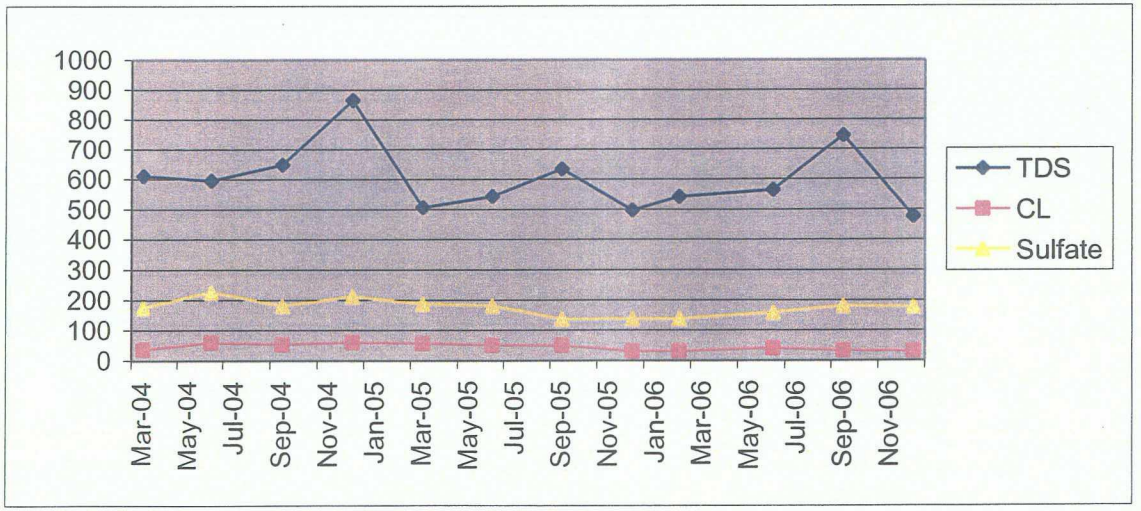
5/7/2006
9/7/2006
TDS
CL
Sulfate

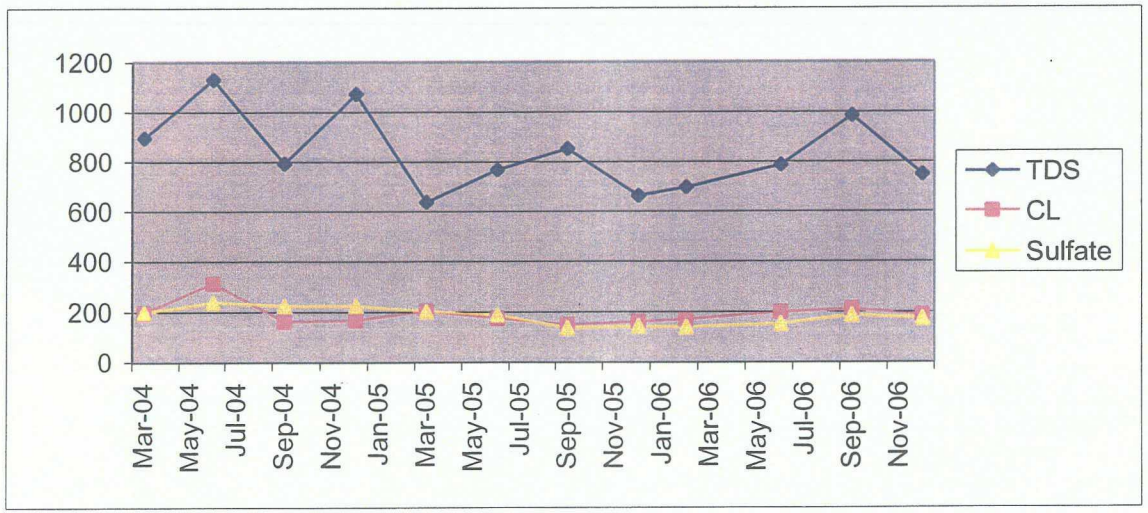
Rice Engineering Operating
H-2
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
4	122.12	137.00	XXX	30.0	03/11/04	35.4	610	<0.001	<0.001	<0.001	<0.001	174	
4	121.96	137.00	XXX	30.0	06/28/04	57.6	596	0.00749	<0.001	<0.001	<0.001	225	
4	121.93	137.00	XXX	25.0	09/23/04	53.2	648	<0.001	<0.001	<0.001	<0.001	180	
4	121.88	137.00	XXX	8.0	12/21/04	59.1	865	0.00275	<0.001	<0.001	<0.001	210	
4	121.66	137.00	XXX	25.0	03/29/05	55.7	506	<0.001	<0.001	<0.001	<0.001	186	
4	121.80	137.00	XXX	30.0	06/16/05	49.8	543	<0.001	<0.001	<0.001	<0.001	179	
4	XXX	XXX	XXX	XXX	09/15/05	48.2	634	<0.001	<0.001	<0.001	<0.001	135	
4	121.81	141.40	3.10	20.0	12/05/05	29.1	496	<0.001	<0.001	<0.001	<0.001	136	
4	121.59	141.40	3.20	20.0	02/27/06	29.1	542	<0.001	<0.001	<0.001	<0.001	136	
4	121.61	141.40	3.20	15.0	06/14/06	39.6	564	<0.001	<0.001	<0.001	<0.001	157	
4	121.62	141.40	3.20	15.0	09/13/06	31.3	746	<0.001	<0.001	<0.001	<0.001	180	
4	121.63	141.40	3.20	15.0	12/05/06	30.0	476	<0.001	<0.001	<0.001	<0.001	176	



Rice Engineering Operating
H-2
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
5	120.15	135.00	XXX	30.0	03/11/04	195	894	<0.001	<0.001	<0.001	<0.001	198	
5	120.04	135.00	XXX	30.0	06/28/04	310	1130	0.0105	<0.001	<0.001	<0.001	238	
5	119.98	135.00	XXX	25.0	09/23/04	160	792	<0.001	<0.001	<0.001	<0.001	224	
5	119.93	135.00	XXX	8.0	12/21/04	165	1072	0.00292	<0.001	<0.001	<0.001	224	
5	119.73	135.00	XXX	25.0	03/29/05	202	636	<0.001	<0.001	<0.001	<0.001	201	
5	119.88	135.00	XXX	30.0	06/16/05	172	767	<0.001	<0.001	<0.001	<0.001	187	
5	XXX	XXX	XXX	XXX	09/15/05	147	852	<0.001	<0.001	<0.001	<0.001	136	
5	119.80	140.00	3.20	20.0	12/05/05	159	662	<0.001	<0.001	<0.001	<0.001	142	
5	119.68	140.00	3.30	20.0	02/27/06	167	696	<0.001	<0.001	<0.001	<0.001	139	
5	119.65	140.00	3.30	15.0	06/14/06	197	786	<0.001	<0.001	<0.001	<0.001	152	
5	119.69	140.00	3.20	15.0	09/13/06	209	984	<0.001	<0.001	<0.001	<0.001	186	
5	119.74	140.00	3.20	15.0	12/05/06	186	748	<0.001	<0.001	<0.001	<0.001	173	



APPENDIX A

R/O System

Rice Operating Company - H-2 RO System Operating Recap - 2006

Date	Activity	Conductivity	Field Cl- mg/L	Lab Cl- mg/L	MW-2 Conductivity or Lab data	Water injected into MW-1 from T-2 in gallons	Elevated Cl water *trans. from T-2 to T-1 for reprocessiong* in gallons	Waste water *metered to* disposal in gallons
11/6/2006	Set unit and load tanks with fresh water, approximately 1300 gallons, start up unit							
11/9/2006	Discharge water to MW-1				Field 1160 mg/L	925		197
11/17/2006	Discharge water to MW-1	983µS Lab	318	171		1250		551
11/21/2006	Transfer water from T-2 to T-1 for makeup						130	868
11/25/2006	Transfer water from T-2 to H-2 Disposal	819 µS	260					1579
11/26/2006	Transfer water from T-2 to T-1 for makeup						400	1875
11/28/2006	Transfer water from T-2 to H-2 Disposal							1766
12/5/2006	Transfer water from T-2 to T-1 for makeup				lab 1240 *mg/L* 4,500µS		200	1792
12/8/2006	Discharge water to MW-1			130		1165		1936
12/12/2006	Discharge water to MW-1	174 µS field 179µS Lab	90	48		560		2225
12/13/2006	Discharge water to MW-1	170 µS	70			425		2327
12/14/2006	Discharge water to MW-1	202 µS	50			750		2462
12/14/2006	Discharge water to MW-1	193 µS	90			500		2648
12/19/2006	Discharge water to MW-1	185 µS				675		2887
12/21/2006	Discharge water to MW-1	189 µS	69			475		3221
12/22/2006	Discharge water to MW-1	185 µS	70			330		3367
12/26/2006	Discharge water to MW-1	186 µS field 201 µS Lab	60	60		515		3976
12/27/2006	Discharge water to MW-1	199 µS	80		Field 5,084µS 1600 mg/L	600		4166
12/28/2006	Discharge water to MW-1	192 µS	60			605		4372
12/30/2006	Discharge water to MW-1	200 µS	70			175		4455
1/3/2007	Discharge water to MW-1	202.8 µS Field 203 µS Lab	70	56		750		5007
	Totals					9700	730	5007
	Total volume of water processed	14707 gallons				66%		33%

APPENDIX B

Lab Analysis

Lab Analysis

3/16/2006

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Justis H-2 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6C02021

Report Date: 03/16/06

Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6C02021-01	Water	02/27/06 14:50	03/02/06 16:05
Monitor Well #2	6C02021-02	Water	02/27/06 10:00	03/02/06 16:05
Monitor Well #3	6C02021-03	Water	02/27/06 13:05	03/02/06 16:05
Monitor Well #4	6C02021-04	Water	02/27/06 12:00	03/02/06 16:05
Monitor Well #5	6C02021-05	Water	02/27/06 11:10	03/02/06 16:05

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6C02021-01) Water									
Benzene	ND	0.00100	mg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6C02021-02) Water									
Benzene	ND	0.00100	mg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6C02021-03) Water									
Benzene	ND	0.00100	mg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6C02021-04) Water									
Benzene	ND	0.00100	mg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #5 (6C02021-05) Water									
Benzene	ND	0.00100	mg/L	1	EC60704	03/07/06	03/08/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.2 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.0 %*		*80-120*		"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

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 (6C02021-01) Water									
Total Alkalinity	**154**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**414**	10.0	"	20	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**1120**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**157**	10.0	"	20	EC60320	03/03/06	03/07/06	EPA 300.0	
Monitor Well #2 (6C02021-02) Water									
Total Alkalinity	**110**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**1360**	12.5	"	25	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**3450**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**139**	12.5	"	25	EC60320	03/03/06	03/07/06	EPA 300.0	
Monitor Well #3 (6C02021-03) Water									
Total Alkalinity	**162**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**26.8**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**562**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**123**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Monitor Well #4 (6C02021-04) Water									
Total Alkalinity	**166**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**29.1**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**542**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**136**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Monitor Well #5 (6C02021-05) Water									
Total Alkalinity	**142**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**167**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**696**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**139**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6C02021-01) Water									
Calcium	144	0.500	mg/L	50	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	54.7	0.0100	"	10	"	"	"	"	
Potassium	8.81	0.500	"	"	"	"	"	"	
Sodium	186	0.500	"	50	"	"	"	"	
Monitor Well #2 (6C02021-02) Water									
Calcium	349	0.500	mg/L	50	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	144	0.0500	"	"	"	"	"	"	
Potassium	14.5	0.500	"	10	"	"	"	"	
Sodium	229	0.500	"	50	"	"	"	"	
Monitor Well #3 (6C02021-03) Water									
Calcium	45.6	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	24.6	0.0100	"	"	"	"	"	"	
Potassium	5.30	0.500	"	"	"	"	"	"	
Sodium	59.8	0.100	"	"	"	"	"	"	
Monitor Well #4 (6C02021-04) Water									
Calcium	38.1	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	21.0	0.0100	"	"	"	"	"	"	
Potassium	4.86	0.500	"	"	"	"	"	"	
Sodium	56.4	0.100	"	"	"	"	"	"	
Monitor Well #5 (6C02021-05) Water									
Calcium	70.0	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	34.2	0.0100	"	"	"	"	"	"	
Potassium	5.91	0.500	"	"	"	"	"	"	
Sodium	77.5	0.500	"	50	"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

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 EC60704 - EPA 5030C (GC)										
Blank (EC60704-BLK1)				Prepared: 03/07/06 Analyzed: 03/08/06						
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	*37.1*		*ug/l*	*40.0*		*92.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.5*		"	*40.0*		*98.8*	*80-120*			
LCS (EC60704-BS1)				Prepared: 03/07/06 Analyzed: 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	"	0.100		117	80-120			
Xylene (o)	0.0590	0.00100	"	0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.7*		*ug/l*	*40.0*		*96.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.3*		"	*40.0*		*106*	*80-120*			
Calibration Check (EC60704-CCV1)				Prepared: 03/07/06 Analyzed: 03/09/06						
Benzene	40.1		ug/l	50.0		80.2	80-120			
Toluene	40.8		"	50.0		81.6	80-120			
Ethylbenzene	42.9		"	50.0		85.8	80-120			
Xylene (p/m)	88.4		"	100		88.4	80-120			
Xylene (o)	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)	**Source: 6C03007-06**			Prepared: 03/07/06 Analyzed: 03/09/06						
Benzene	0.0403	0.00100	mg/L	0.0500	ND	80.6	80-120			
Toluene	0.0432	0.00100	"	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	"	0.100	ND	97.1	80-120			
Xylene (o)	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-Bromofluorobenzene	*43.8*		"	*40.0*		*110*	*80-120*			

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

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 EC60704 - EPA 5030C (GC)										
Matrix Spike Dup (EC60704-MSD1)	**Source: 6C03007-06**			Prepared: 03/07/06 Analyzed: 03/09/06						
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	"	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*			

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

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 (WetChem)										
Blank (EC60320-BLK1)				Prepared: 03/03/06 Analyzed: 03/07/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EC60320-BS1)				Prepared: 03/03/06 Analyzed: 03/07/06						
Sulfate	8.49		mg/L	10.0		84.9	80-120			
Chloride	8.77		"	10.0		87.7	80-120			
Calibration Check (EC60320-CCV1)				Prepared: 03/03/06 Analyzed: 03/07/06						
Chloride	9.37		mg/L	10.0		93.7	80-120			
Sulfate	9.44		"	10.0		94.4	80-120			
Duplicate (EC60320-DUP1)		**Source: 6C02021-03**		Prepared: 03/03/06 Analyzed: 03/07/06						
Chloride	27.1	5.00	mg/L		26.8			1.11	20	
Sulfate	124	5.00	"		123			0.810	20	
Batch EC60607 - General Preparation (WetChem)										
Blank (EC60607-BLK1)				Prepared: 03/03/06 Analyzed: 03/06/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EC60607-DUP1)		**Source: 6C02020-01**		Prepared: 03/03/06 Analyzed: 03/06/06						
Total Dissolved Solids	524	5.00	mg/L		538			2.64	5	
Duplicate (EC60607-DUP2)		**Source: 6C02021-03**		Prepared: 03/03/06 Analyzed: 03/06/06						
Total Dissolved Solids	570	5.00	mg/L		562			1.41	5	

12600 West I-20 East - Odessa, Texas 79765 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

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 EC60905 - General Preparation (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)		Source: 6C02020-01		Prepared & Analyzed: 03/09/06						
Total Alkalinity	195	2.00	mg/L		194			0.514	20	
Reference (EC60905-SRM1)				Prepared & Analyzed: 03/09/06						
Total Alkalinity	97.0		mg/L	100		97.0	90-110			

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

Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/16/06 16:49

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	"							
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		"	2.00		95.0	85-115			
Sodium	1.85		"	2.00		92.5	85-115			
Duplicate (EC60711-DUP1)		**Source: 6C02020-01**		Prepared & 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	"		3.71			2.73	20	
Sodium	37.6	0.100	"		37.2			1.07	20	

12600 West I-20 East - Odessa, Texas 79765 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Justis H-2 SWD Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471 **Reported:** 03/16/06 16:49

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 K Tuttle Date: 3/16/2006

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.

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpriceswd@valornet.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
Email: rozanne@valornet.com

Project Name: Justis H-2 SWD
Project #:
Project Loc: Lea County
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP:	Analyze For: TOTAL:	RUSH TAT (Pre-Schedule)	Standard TAT
01	Monitor Well # 1	2/27/2006	14:50	3	X		2			1		X					X		X
02	Monitor Well # 2	2/27/2006	10:00	3	X		2			1		X					X		X
03	Monitor Well # 3	2/27/2006	13:05	3	X		2			1		X					X		X
04	Monitor Well # 4	2/27/2006	12:00	3	X		2			1		X					X		X
05	Monitor Well # 5	2/27/2006	11:10	3	X		2			1		X					X		X

Analyze For: TCLP: TOTAL: X

TPH: 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 | PCI | NORM | Total Dissolved Solids

Special Instructions:
PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com

Sample Containers Intact? (Y) N
Labels on container? (Y) N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: ~1.0 C not froze

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	3/2/06	1605			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Deana McMann	03-02-06	1605

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

Client: Rice Op.

Date/Time: 2/2/07 16:05

Order #: 610202-4

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-1.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Samples not frozen.

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

Lab Analysis

6/23/2006

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: Justis H-2 SWD
Project Number: None Given
Location: Lea County

Lab Order Number: 6F15003

Report Date: 06/23/06

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

Project: Justis H-2 SWD
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	6F15003-01	Water	06/14/06 09:30	06/15/06 07:50
Monitor Well #2	6F15003-02	Water	06/14/06 12:45	06/15/06 07:50
Monitor Well #3	6F15003-03	Water	06/14/06 10:45	06/15/06 07:50
Monitor Well #4	6F15003-04	Water	06/14/06 13:50	06/15/06 07:50
Monitor Well #5	6F15003-05	Water	06/14/06 14:45	06/15/06 07:50

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

Project: Justis H-2 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6F15003-01) Water									
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6F15003-02) Water									
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6F15003-03) Water									
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6F15003-04) Water									
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*80-120*		"	"	"	"	

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

Project: Justis H-2 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #5 (6F15003-05) Water									
Benzene	ND	0.00100	mg/L	1	EF61921	06/19/06	06/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		"	"	"	"	

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

Project: Justis H-2 SWD
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 (6F15003-01) Water									
Total Alkalinity	**166**	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	**206**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	**782**	5.00	"	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	**151**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #2 (6F15003-02) Water									
Total Alkalinity	**148**	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	**1260**	25.0	"	50	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	**3520**	5.00	"	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	**204**	25.0	"	50	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #3 (6F15003-03) Water									
Total Alkalinity	**174**	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	**38.3**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	**514**	5.00	"	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	**151**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #4 (6F15003-04) Water									
Total Alkalinity	**188**	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	**39.6**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	**564**	5.00	"	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	**157**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Monitor Well #5 (6F15003-05) Water									
Total Alkalinity	**154**	2.00	mg/L	1	EF62316	06/22/06	06/22/06	EPA 310.1M	
Chloride	**197**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	
Total Dissolved Solids	**786**	5.00	"	1	EF61918	06/15/06	06/16/06	EPA 160.1	
Sulfate	**152**	5.00	"	10	EF61712	06/17/06	06/17/06	EPA 300.0	

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

Project: Justis H-2 SWD
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	Notes
Monitor Well #1 (6F15003-01) Water									
Calcium	**81.4**	0.100	mg/L	10	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	**37.9**	0.0100	"	"	"	"	"	"	
Potassium	**5.80**	0.500	"	"	"	"	"	"	
Sodium	**87.0**	0.100	"	"	"	"	"	"	
Monitor Well #2 (6F15003-02) Water									
Calcium	**341**	0.500	mg/L	50	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	**159**	0.0500	"	"	"	"	"	"	
Potassium	**14.4**	0.500	"	10	"	"	"	"	
Sodium	**189**	0.500	"	50	"	"	"	"	
Monitor Well #3 (6F15003-03) Water									
Calcium	**50.8**	0.100	mg/L	10	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	**25.4**	0.0100	"	"	"	"	"	"	
Potassium	**4.58**	0.500	"	"	"	"	"	"	
Sodium	**54.9**	0.100	"	"	"	"	"	"	
Monitor Well #4 (6F15003-04) Water									
Calcium	**44.0**	0.100	mg/L	10	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	**24.1**	0.0100	"	"	"	"	"	"	
Potassium	**5.23**	0.500	"	"	"	"	"	"	
Sodium	**63.9**	0.100	"	"	"	"	"	"	
Monitor Well #5 (6F15003-05) Water									
Calcium	**83.9**	0.100	mg/L	10	EF61505	06/15/06	06/15/06	EPA 6010B	
Magnesium	**42.8**	0.0100	"	"	"	"	"	"	
Potassium	**5.85**	0.500	"	"	"	"	"	"	
Sodium	**73.0**	0.100	"	"	"	"	"	"	

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

Project: Justis H-2 SWD
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 EF61921 - EPA 5030C (GC)										
Blank (EF61921-BLK1)				Prepared: 06/19/06 Analyzed: 06/20/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*38.4*		*ug/l*	*40.0*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.4*		*"*	*40.0*		*96.0*	*80-120*			
LCS (EF61921-BS1)				Prepared: 06/19/06 Analyzed: 06/20/06						
Benzene	0.0529	0.00100	mg/L	0.0500		106	80-120			
Toluene	0.0579	0.00100	"	0.0500		116	80-120			
Ethylbenzene	0.0565	0.00100	"	0.0500		113	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0589	0.00100	"	0.0500		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.6*		*ug/l*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.7*		*"*	*40.0*		*102*	*80-120*			
Calibration Check (EF61921-CCV1)				Prepared: 06/19/06 Analyzed: 06/20/06						
Benzene	58.0		ug/l	50.0		116	80-120			
Toluene	59.2		"	50.0		118	80-120			
Ethylbenzene	57.5		"	50.0		115	80-120			
Xylene (p/m)	119		"	100		119	80-120			
Xylene (o)	59.0		"	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.1*		*"*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.4*		*"*	*40.0*		*96.0*	*80-120*			
Matrix Spike (EF61921-MS1)	**Source: 6F15001-01**			Prepared: 06/19/06 Analyzed: 06/20/06						
Benzene	0.0488	0.00100	mg/L	0.0500	ND	97.6	80-120			
Toluene	0.0539	0.00100	"	0.0500	ND	108	80-120			
Ethylbenzene	0.0501	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.115	0.00100	"	0.100	ND	115	80-120			
Xylene (o)	0.0576	0.00100	"	0.0500	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.6*		*ug/l*	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.7*		*"*	*40.0*		*104*	*80-120*			

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

Project: Justis H-2 SWD
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 EF61921 - EPA 5030C (GC)										
Matrix Spike Dup (EF61921-MSD1)		**Source: 6F15001-01**		Prepared: 06/19/06 Analyzed: 06/20/06						
Benzene	0.0484	0.00100	mg/L	0.0500	ND	96.8	80-120	0.823	20	
Toluene	0.0469	0.00100	"	0.0500	ND	93.8	80-120	14.1	20	
Ethylbenzene	0.0451	0.00100	"	0.0500	ND	90.2	80-120	10.3	20	
Xylene (p/m)	0.0979	0.00100	"	0.100	ND	97.9	80-120	16.1	20	
Xylene (o)	0.0497	0.00100	"	0.0500	ND	99.4	80-120	14.6	20	
Surrogate: a,a,a-Trifluorotoluene	*33.7*		*ug/l*	*40.0*		*84.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.1*		*"*	*40.0*		*97.8*	*80-120*			

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

Project: Justis H-2 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EF61712 - General Preparation (WetChem)										
Blank (EF61712-BLK1)				Prepared & Analyzed: 06/17/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EF61712-BS1)				Prepared & Analyzed: 06/17/06						
Chloride	10.0		mg/L	10.0		100	80-120			
Sulfate	8.16		"	10.0		81.6	80-120			
Calibration Check (EF61712-CCV1)				Prepared & Analyzed: 06/17/06						
Chloride	10.9		mg/L	10.0		109	80-120			
Sulfate	10.5		"	10.0		105	80-120			
Duplicate (EF61712-DUP1)	Source: 6F14013-01			Prepared & Analyzed: 06/17/06						
Chloride	47.9	5.00	mg/L		48.8			1.86	20	
Sulfate	69.2	5.00	"		69.8			0.863	20	
Duplicate (EF61712-DUP2)	Source: 6F15003-05			Prepared & Analyzed: 06/18/06						
Chloride	198	5.00	mg/L		197			0.506	20	
Sulfate	154	5.00	"		152			1.31	20	
Matrix Spike (EF61712-MS1)	Source: 6F14013-01			Prepared & Analyzed: 06/17/06						
Chloride	157	5.00	mg/L	100	48.8	108	80-120			
Sulfate	154	5.00	"	100	69.8	84.2	75-125			
Matrix Spike (EF61712-MS2)	Source: 6F15003-05			Prepared & Analyzed: 06/18/06						
Sulfate	249	5.00	mg/L	100	152	97.0	75-125			
Chloride	301	5.00	"	100	197	104	80-120			

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

Project: Justis H-2 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF61918 - Filtration Preparation										
Blank (EF61918-BLK1)				Prepared: 06/15/06 Analyzed: 06/16/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EF61918-DUP1)		Source: 6F15001-01		Prepared: 06/15/06 Analyzed: 06/16/06						
Total Dissolved Solids	7770	5.00	mg/L		7820			0.641	5	
Batch EF62316 - General Preparation (WetChem)										
Blank (EF62316-BLK1)				Prepared & Analyzed: 06/22/06						
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	"							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
LCS (EF62316-BS1)				Prepared & Analyzed: 06/22/06						
Total Alkalinity	248	2.00	mg/L	250		99.2	85-115			
Duplicate (EF62316-DUP1)		Source: 6F15001-01		Prepared & Analyzed: 06/22/06						
Total Alkalinity	380	2.00	mg/L		386			1.57	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	380	2.00	"		386			1.57	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Duplicate (EF62316-DUP2)		Source: 6F22003-01		Prepared & Analyzed: 06/22/06						
Total Alkalinity	142	2.00	mg/L		144			1.40	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	142	2.00	"		144			1.40	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

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

Project: Justis H-2 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EF62316 - General Preparation (WetChem)										
Reference (EF62316-SRM1)				Prepared & Analyzed: 06/22/06						
Total Alkalinity	78.0	2.00	mg/L	82.0		95.1	85-115			
Bicarbonate Alkalinity	78.0	2.00	"	82.0		95.1	85-115			

Rice Operating Co.	Project: Justis H-2 SWD	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 EF61505 - 6010B/No Digestion										
Blank (EF61505-BLK1)				Prepared & Analyzed: 06/15/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EF61505-CCV1)				Prepared & Analyzed: 06/15/06						
Calcium	2.01		mg/L	2.00		100	85-115			
Magnesium	2.12		"	2.00		106	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.74		"	2.00		87.0	85-115			
Duplicate (EF61505-DUP1)		**Source: 6F15001-01**		Prepared & Analyzed: 06/15/06						
Calcium	316	0.500	mg/L		320			1.26	20	
Magnesium	231	0.0500	"		229			0.870	20	
Potassium	38.4	0.500	"		38.5			0.260	20	
Sodium	1740	5.00	"		1760			1.14	20	

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Rice Operating Co.	Project: Justis H-2 SWD	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: Raland K. Tuttle Date: 6-23-06

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.

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

02/06/2007 17:30 FAX

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
Email: rozanne@valornet.com

Project Name: Justis H-2 SWD
Project #:
Project Loc: Lea County
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule)	Standard TAT
WF503																							X							
-01	Monitor Well #1	6/14/2006	9:30	3	X		2			1		X					X	X					X			X				X
-02	Monitor Well #2	6/14/2006	12:45	3	X		2			1		X					X	X					X			X				X
-03	Monitor Well #3	6/14/2006	10:45	3	X		2			1		X					X	X					X			X				X
-04	Monitor Well #4	6/14/2006	13:50	3	X		2			1		X					X	X					X			X				X
-05	Monitor Well #5	6/14/2006	14:45	3	X		2			1		X					X	X					X			X				X

Special Instructions:

PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 1.5°C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	6/15/06	5:30	James Johnson	6/15/06	5:31
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
James Johnson	6/15/06	7:50	Roland K. Tuo	6-15-06	0750

015

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

nt: Rice Op.

e/Time: 6/15/06 7:50

er #: 6F15003

ials: CK

Sample Receipt Checklist

perature of container/cooler?	Yes	No	1.5 C
ping container/cooler in good condition?	Yes	No	
tody Seals intact on shipping container/cooler?	Yes	No	Not present
tody Seals intact on sample bottles?	Yes	No	Not present
n of custody present?	Yes	No	
ple Instructions complete on Chain of Custody?	Yes	No	
in of Custody signed when relinquished and received?	Yes	No	
n of custody agrees with sample label(s)	Yes	No	
tainer labels legible and intact?	Yes	No	
ple Matrix and properties same as on chain of custody?	Yes	No	
mples in proper container/bottle?	Yes	No	
mples properly preserved?	Yes	No	
ple bottles intact?	Yes	No	
servations documented on Chain of Custody?	Yes	No	
tainers documented on Chain of Custody?	Yes	No	
icient sample amount for indicated test?	Yes	No	
samples received within sufficient hold time?	Yes	No	
C samples have zero headspace?	Yes	No	Not Applicable

her observations:

Variance Documentation:

ntact Person: - Date/Time: Contacted by:

garding:

orrective Action Taken:

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: (505) 397-1471

Receiving Date: 06/15/06
Reporting Date: 06/19/06
Project Number: NOT GIVEN
Project Name: JUSTIS H-2SWD
Project Location: LEA COUNTY, NM

Sampling Date: 06/14/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM

LAB NUMBER SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity ($mgCaCO_3/L$)
ANALYSIS DATE:	06/17/06	06/17/06	06/17/06	06/17/06	06/15/06	06/17/06
H11234-1 MONITOR WELL #5	104	96	48.6	9.67	1237	120
Quality Control	NR	48.0	48.6	3.86	1438	NR
True Value QC	NR	50.0	50	4.00	1413	NR
% Recovery	NR	96	97	97	102	NR
Relative Percent Difference	NR	0.0	0.0	16	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:	06/16/06	06/17/06	06/17/06	06/17/06	06/15/06	06/16/06
H11234-1 MONITOR WELL #5	196	272	0	146	7.58	870
Quality Control	1000	25.1	NR	976	7.02	NR
True Value QC	1000	25.0	NR	1000	7.00	NR
% Recovery	100	100	NR	98	100	NR
Relative Percent Difference	1.0	13.7	NR	0.0	0.3	
METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Chemist

06-19-06
Date

H11234

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: (505) 397-1471

Receiving Date: 06/15/06
Reporting Date: 06/17/06
Project Number: NOT GIVEN
Project Name: JUSTIS H-2SWD
Project Location: LEA COUNTY, NM

Sampling Date: 06/14/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		06/15/06	06/15/06	06/15/06	06/15/06
H11234-1	MONITOR WELL #5	<0.002	<0.002	<0.002	<0.006
Quality Control		0.096	0.092	0.095	0.293
True Value QC		0.100	0.100	0.100	0.300
% Recovery		95.7	92.3	95.4	97.5
Relative Percent Difference		5.4	0.7	4.7	4.7

METHOD: EPA SW-846 8260

Burgess J.R. Cook
Chemist

6/17/06
Date

H11234

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020

101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Company Name:	Rice Operating Company	BILL TO	PO #:
Project Manager:	Kristin Farris Papa	Company:	
Address:	122 W Taylor Street	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	(505) 393-9174	City:	
Fax #:	(505) 397-1471	State: Zip:	
Project #:	Project Owner:	Phone #:	
Project Name:	Justis H-25 SWD	Fax #:	
Project Location:	Lea County		

FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING		ANALYSIS REQUEST											
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)		BTEX		Total Dissolved Solids						
H10239-1	Monitor Well #5	G	3	X						X	X		6-14-06	1445	X	X		X		X						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of service, and all costs of collections, including attorney's fees.

Sampler Relinquished: Rozzanne Johnson	Date: 6-15-2006 Time: 11:15	Received By:	Phone Result: ☐ Yes ☐ No Additional Fax #: Fax Result: ☐ Yes ☐ No REMARKS: PLEASE EMAIL RESULTS TO Kpricesud@valornet.com mfranks@ricesud.com rozanne@valornet.com
Relinquished By:	Date: Time:	Received By: (Lab Staff)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

Lab Analysis

9/25/2006

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Justis H-2 SWD

Project Number: None Given

Location: T26S-R37E-Sec2H- Lea County, NM

Lab Order Number: 6I14012

Report Date: 09/25/06

Rice Operating Co.	Project: Justis H-2 SWD	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	6I14012-01	Water	09/13/06 15:50	09-14-2006 16:00
Monitor Well #2	6I14012-02	Water	09/13/06 13:20	09-14-2006 16:00
Monitor Well #3	6I14012-03	Water	09/13/06 09:35	09-14-2006 16:00
Monitor Well #4	6I14012-04	Water	09/13/06 10:50	09-14-2006 16:00
Monitor Well #5	6I14012-05	Water	09/13/06 12:05	09-14-2006 16:00

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	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 (6I14012-01) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/19/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.0 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6I14012-02) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.8 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6I14012-03) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.8 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6I14012-04) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	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 #5 (6I14012-05) Water									
Benzene	ND	0.00100	mg/L	1	EI61906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.5 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.8 %*		*80-120*	"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	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 (6I14012-01) Water									
Total Alkalinity	**164**	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	**430**	12.5	"	25	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	**1260**	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	**194**	12.5	"	25	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #2 (6I14012-02) Water									
Total Alkalinity	**148**	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	**1130**	25.0	"	50	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	**2560**	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	**166**	25.0	"	50	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #3 (6I14012-03) Water									
Total Alkalinity	**180**	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	**28.0**	5.00	"	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	**610**	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	**170**	5.00	"	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #4 (6I14012-04) Water									
Total Alkalinity	**178**	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	**31.3**	5.00	"	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	**746**	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	**180**	5.00	"	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Monitor Well #5 (6I14012-05) Water									
Total Alkalinity	**142**	2.00	mg/L	1	EI62015	09/20/06	09/20/06	EPA 310.1M	
Chloride	**209**	5.00	"	10	EI61815	09/15/06	09/19/06	EPA 300.0	
Total Dissolved Solids	**984**	10.0	"	1	EI61818	09/15/06	09/18/06	EPA 160.1	
Sulfate	**186**	5.00	"	10	EI61815	09/15/06	09/19/06	EPA 300.0	

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Rice Operating Co.	Project: Justis H-2 SWD	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 (6I14012-01) Water									
Calcium	**118**	4.05	mg/L	50	EI61801	09/18/06	09/18/06	EPA 6010B	
Magnesium	**57.1**	0.360	"	10	"	"	"	"	
Potassium	**8.77**	0.600	"	"	"	"	"	"	
Sodium	**166**	2.15	"	50	"	"	"	"	
Monitor Well #2 (6I14012-02) Water									
Calcium	**317**	4.05	mg/L	50	EI61801	09/18/06	09/18/06	EPA 6010B	
Magnesium	**158**	1.80	"	"	"	"	"	"	
Potassium	**13.8**	0.600	"	10	"	"	"	"	
Sodium	**190**	2.15	"	50	"	"	"	"	
Monitor Well #3 (6I14012-03) Water									
Calcium	**45.9**	0.810	mg/L	10	EI61801	09/18/06	09/18/06	EPA 6010B	
Magnesium	**25.1**	0.360	"	"	"	"	"	"	
Potassium	**5.06**	0.600	"	"	"	"	"	"	
Sodium	**64.6**	0.430	"	"	"	"	"	"	
Monitor Well #4 (6I14012-04) Water									
Calcium	**42.5**	0.810	mg/L	10	EI61801	09/18/06	09/18/06	EPA 6010B	
Magnesium	**23.8**	0.360	"	"	"	"	"	"	
Potassium	**5.05**	0.600	"	"	"	"	"	"	
Sodium	**65.3**	0.430	"	"	"	"	"	"	
Monitor Well #5 (6I14012-05) Water									
Calcium	**88.8**	0.810	mg/L	10	EI61801	09/18/06	09/18/06	EPA 6010B	
Magnesium	**36.5**	0.360	"	"	"	"	"	"	
Potassium	**5.21**	0.600	"	"	"	"	"	"	
Sodium	**81.9**	0.430	"	"	"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	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: 09/19/06 Analyzed: 09/20/06						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*41.7*		*ug/l*	*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	"	0.0500		87.4	80-120			
Xylene (p/m)	0.105	0.00100	"	0.100		105	80-120			
Xylene (o)	0.0506	0.00100	"	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: 09/19/06 Analyzed: 09/20/06						
Benzene	0.0540		mg/L	0.0500		108	80-120			
Toluene	0.0482		"	0.0500		96.4	80-120			
Ethylbenzene	0.0489		"	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*		*ug/l*	*40.0*		*100*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.3*		*"*	*40.0*		*108*	*80-120*			
Matrix Spike (EI61906-MS1)	**Source: 6I14005-01**			Prepared: 09/19/06 Analyzed: 09/20/06						
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	"	0.100	ND	106	80-120			
Xylene (o)	0.0511	0.00100	"	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*			

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

Project: Justis H-2 SWD
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 EI61906 - EPA 5030C (GC)										
Matrix Spike Dup (EI61906-MSD1)	**Source: 6I14005-01**			Prepared: 09/19/06 Analyzed: 09/20/06						
Benzene	0.0580	0.00100	mg/L	0.0500	ND	116	80-120	2.55	20	
Toluene	0.0510	0.00100	"	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	"	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*			

Rice Operating Co.	Project: Justis H-2 SWD	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 EI61815 - General Preparation (WetChem)										
Blank (EI61815-BLK1)				Prepared: 09/15/06 Analyzed: 09/19/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EI61815-BS1)				Prepared: 09/15/06 Analyzed: 09/19/06						
Chloride	9.83	0.500	mg/L	10.0		98.3	80-120			
Sulfate	10.1	0.500	"	10.0		101	80-120			
Calibration Check (EI61815-CCV1)				Prepared: 09/15/06 Analyzed: 09/19/06						
Chloride	9.86		mg/L	10.0		98.6	80-120			
Sulfate	10.2		"	10.0		102	80-120			
Duplicate (EI61815-DUP1)	**Source: 6I13001-01**			Prepared: 09/15/06 Analyzed: 09/19/06						
Chloride	223	5.00	mg/L		221			0.901	20	
Sulfate	80.6	5.00	"		80.7			0.124	20	
Duplicate (EI61815-DUP2)	**Source: 6I14014-02**			Prepared: 09/15/06 Analyzed: 09/19/06						
Chloride	547	12.5	mg/L		546			0.183	20	
Sulfate	306	12.5	"		306			0.00	20	
Matrix Spike (EI61815-MS1)	**Source: 6I13001-01**			Prepared: 09/15/06 Analyzed: 09/19/06						
Chloride	331	5.00	mg/L	100	221	110	80-120			
Sulfate	185	5.00	"	100	80.7	104	80-120			
Matrix Spike (EI61815-MS2)	**Source: 6I14014-02**			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			

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Rice Operating Co.	Project: Justis H-2 SWD	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 EI61818 - Filtration Preparation										
Blank (EI61818-BLK1)				Prepared: 09/15/06 Analyzed: 09/18/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EI61818-DUP1)	**Source: 6I14012-01**			Prepared: 09/15/06 Analyzed: 09/18/06						
Total Dissolved Solids	1250	10.0	mg/L		1260			0.797	5	
Duplicate (EI61818-DUP2)	**Source: 6I14014-03**			Prepared: 09/15/06 Analyzed: 09/18/06						
Total Dissolved Solids	564	10.0	mg/L		562			0.355	5	
Batch EI62015 - General Preparation (WetChem)										
Blank (EI62015-BLK1)				Prepared & Analyzed: 09/20/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EI62015-BS1)				Prepared & Analyzed: 09/20/06						
Total Alkalinity	170	2.00	mg/L	200		85.0	85-115			
Duplicate (EI62015-DUP1)	**Source: 6I14012-01**			Prepared & Analyzed: 09/20/06						
Total Alkalinity	170	2.00	mg/L		164			3.59	20	
Reference (EI62015-SRM1)				Prepared & Analyzed: 09/20/06						
Total Alkalinity	240		mg/L	250		96.0	90-110			

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Rice Operating Co.	Project: Justis H-2 SWD	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 EI61801 - 6010B/No Digestion										
Blank (EI61801-BLK1)				Prepared & 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 & 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		"	2.00		87.0	85-115			
Sodium	1.73		"	2.00		86.5	85-115			
Duplicate (EI61801-DUP1)	**Source: 6I14005-01**			Prepared & Analyzed: 09/18/06						
Calcium	40.2	0.810	mg/L		44.3			9.70	20	
Magnesium	18.0	0.360	"		17.6			2.25	20	
Potassium	8.88	0.600	"		8.96			0.897	20	
Sodium	48.5	0.430	"		44.7			8.15	20	

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Rice Operating Co.	Project: Justis H-2 SWD	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: Raland K. Tuttle Date: 9/25/2006

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

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Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com
Project Name: Justis H-2 SWD
Company Name: RICE Operating Company
Project #:
Company Address: 122 W. Taylor Street
Project Loc: T26S-R37E-Sec2H ~ Lea County, NM
City/State/Zip: Hobbs, New Mexico 88240
PO #:
Telephone No: (505) 393-9174
Fax No: (505) 397-1471
Sampler Signature: Rozanne Johnson (505) 631-9310
Email: rozanne@valornet.com

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP:	Analyze For: TOTAL:	RUSH TAT (Pre-Schedule)	Standard TAT
01	Monitor Well # 1	9/13/2006	15:50	3	X		2			1		X					X		X
02	Monitor Well # 2	9/13/2006	13:20	3	X		2			1		X					X		X
03	Monitor Well # 3	9/13/2006	9:35	3	X		2			1		X					X		X
04	Monitor Well # 4	9/13/2006	10:50	3	X		2			1		X					X		X
05	Monitor Well # 5	9/13/2006	12:05	3	X		2			1		X					X		X

Analyze For: TPH: 418.1 8015M 1005 1006 | Cations (Ca, Mg, Na, K) | Anions (Cl, SO4, CO3, HCO3) | SAR / ESP / CEC | Metals: As Ag Ba Cd Cr Pb Hg Se | Volatiles | Semivolatiles | BTEX 8021B/5030 | RCI | N.O.R.M. | Total Dissolved Solids

Special Instructions:

PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com
rozanne@valornet.com

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals / Containers / Cooler
Temperature Upon Receipt: 2.5
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	9/14/06	10:00			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				9/14/06	10:00

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

lient: Rice Dp.

ate/ Time: 9/14/00 16:00

ab ID #: 60H4002

itials: CK

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	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

ontact: _____ Contacted by: _____ Date/ Time: _____

egarding: _____

_____

rrective Action Taken:

_____

_____

_____

heck 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

Lab Analysis

12/19/2006

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Justis H-2 SWD

Project Number: None Given

Location: T26S R37E Sec. 2H- Lea County, NM

Lab Order Number: 6L07013

Report Date: 12/19/06

Rice Operating Co.	Project: Justis H-2 SWD	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	6L07013-01	Water	12/05/06 11:20	12-07-2006 10:50
Monitor Well #2	6L07013-02	Water	12/05/06 11:25	12-07-2006 10:50
Monitor Well #3	6L07013-03	Water	12/05/06 12:20	12-07-2006 10:50
Monitor Well #4	6L07013-04	Water	12/05/06 13:10	12-07-2006 10:50
Monitor Well #5	6L07013-05	Water	12/05/06 13:55	12-07-2006 10:50

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	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 (6L07013-01) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*117 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6L07013-02) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*119 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6L07013-03) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/18/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6L07013-04) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.5 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	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 #5 (6L07013-05) Water									
Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*116 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.5 %*		*80-120*	"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	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 (6L07013-01) Water									
Total Alkalinity	**80.0**	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	**223**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	**512**	10.0	"	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	**47.6**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Monitor Well #2 (6L07013-02) Water									
Total Alkalinity	**150**	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	**1240**	25.0	"	50	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	**2300**	10.0	"	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	**156**	25.0	"	50	EL60801	12/07/06	12/07/06	EPA 300.0	
Monitor Well #3 (6L07013-03) Water									
Total Alkalinity	**178**	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	**26.1**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	**486**	10.0	"	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	**164**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Monitor Well #4 (6L07013-04) Water									
Total Alkalinity	**218**	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	**30.0**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	**476**	10.0	"	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	**176**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Monitor Well #5 (6L07013-05) Water									
Total Alkalinity	**158**	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	**186**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	**748**	10.0	"	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	**173**	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	

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Rice Operating Co.	Project: Justis H-2 SWD	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 (6L07013-01) Water									
Calcium	**61.1**	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	**23.7**	0.360	"	10	"	"	"	"	
Potassium	**4.82**	0.600	"	"	"	"	"	"	
Sodium	**76.4**	2.15	"	50	"	"	"	"	
Monitor Well #2 (6L07013-02) Water									
Calcium	**366**	8.10	mg/L	100	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	**181**	1.80	"	50	"	"	"	"	
Potassium	**18.6**	0.600	"	10	"	"	"	"	
Sodium	**278**	4.30	"	100	"	"	"	"	
Monitor Well #3 (6L07013-03) Water									
Calcium	**52.2**	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	**25.7**	0.360	"	10	"	"	"	"	
Potassium	**5.08**	0.600	"	"	"	"	"	"	
Sodium	**63.8**	2.15	"	50	"	"	"	"	
Monitor Well #4 (6L07013-04) Water									
Calcium	**48.2**	0.810	mg/L	10	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	**25.2**	0.360	"	"	"	"	"	"	
Potassium	**5.66**	0.600	"	"	"	"	"	"	
Sodium	**67.7**	2.15	"	50	"	"	"	"	
Monitor Well #5 (6L07013-05) Water									
Calcium	**95.8**	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	**40.7**	0.360	"	10	"	"	"	"	
Potassium	**6.82**	0.600	"	"	"	"	"	"	
Sodium	**83.1**	2.15	"	50	"	"	"	"	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	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 EL61404 - EPA 5030C (GC)										
Blank (EL61404-BLK1)				Prepared & Analyzed: 12/14/06						
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	*45.2*		*ug/l*	*40.0*		*113*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.5*		"	*40.0*		*86.2*	*80-120*			
LCS (EL61404-BS1)				Prepared & Analyzed: 12/14/06						
Benzene	0.0423	0.00100	mg/L	0.0500		84.6	80-120			
Toluene	0.0430	0.00100	"	0.0500		86.0	80-120			
Ethylbenzene	0.0426	0.00100	"	0.0500		85.2	80-120			
Xylene (p/m)	0.0962	0.00100	"	0.100		96.2	80-120			
Xylene (o)	0.0469	0.00100	"	0.0500		93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.6*		*ug/l*	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.8*		"	*40.0*		*82.0*	*80-120*			
Calibration Check (EL61404-CCV1)				Prepared: 12/14/06 Analyzed: 12/15/06						
Benzene	54.4		ug/l	50.0		109	80-120			
Toluene	55.1		"	50.0		110	80-120			
Ethylbenzene	59.3		"	50.0		119	80-120			
Xylene (p/m)	116		"	100		116	80-120			
Xylene (o)	58.7		"	50.0		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*47.9*		"	*40.0*		*120*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.0*		"	*40.0*		*100*	*80-120*			
Matrix Spike (EL61404-MS1)	**Source: 6L05006-10**			Prepared: 12/14/06 Analyzed: 12/18/06						
Benzene	0.0402	0.00100	mg/L	0.0500	ND	80.4	80-120			
Toluene	0.0407	0.00100	"	0.0500	ND	81.4	80-120			
Ethylbenzene	0.0487	0.00100	"	0.0500	ND	97.4	80-120			
Xylene (p/m)	0.0853	0.00100	"	0.100	ND	85.3	80-120			
Xylene (o)	0.0444	0.00100	"	0.0500	ND	88.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.6*		*ug/l*	*40.0*		*81.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.7*		"	*40.0*		*96.8*	*80-120*			

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	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 EL61404 - EPA 5030C (GC)										
Matrix Spike Dup (EL61404-MSD1)	**Source: 6L05006-10**			Prepared: 12/14/06 Analyzed: 12/18/06						
Benzene	0.0422	0.00100	mg/L	0.0500	ND	84.4	80-120	4.85	20	
Toluene	0.0446	0.00100	"	0.0500	ND	89.2	80-120	9.14	20	
Ethylbenzene	0.0464	0.00100	"	0.0500	ND	92.8	80-120	4.84	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	17.8	20	
Xylene (o)	0.0513	0.00100	"	0.0500	ND	103	80-120	14.8	20	
Surrogate: a,a,a-Trifluorotoluene	*38.2*		*ug/l*	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.7*		*"*	*40.0*		*94.2*	*80-120*			

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Rice Operating Co.	Project: Justis H-2 SWD	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 EL60801 - General Preparation (WetChem)										
Blank (EL60801-BLK1)				Prepared & Analyzed: 12/08/06						
Chloride	ND	0.500	mg/L							
Sulfate	0.623	0.500	"							B
LCS (EL60801-BS1)				Prepared & Analyzed: 12/08/06						
Sulfate	10.3	0.500	mg/L	10.0		103	80-120			
Chloride	10.0	0.500	"	10.0		100	80-120			
Calibration Check (EL60801-CCV1)				Prepared & Analyzed: 12/08/06						
Chloride	10.4		mg/L	10.0		104	80-120			
Sulfate	11.6		"	10.0		116	80-120			
Duplicate (EL60801-DUP1)	Source: 6L07005-01			Prepared & Analyzed: 12/08/06						
Sulfate	13.4	2.50	mg/L		13.4			0.00	20	
Chloride	129	2.50	"		130			0.772	20	
Matrix Spike (EL60801-MS1)	Source: 6L07005-01			Prepared & Analyzed: 12/08/06						
Sulfate	61.4	2.50	mg/L	50.0	13.4	96.0	80-120			
Chloride	189	2.50	"	50.0	130	118	80-120			
Batch EL60803 - Filtration Preparation										
Blank (EL60803-BLK1)				Prepared: 12/07/06 Analyzed: 12/08/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EL60803-DUP1)	Source: 6L07005-01			Prepared: 12/07/06 Analyzed: 12/08/06						
Total Dissolved Solids	266	10.0	mg/L		246			7.81	20	

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Rice Operating Co.	Project: Justis H-2 SWD	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 EL60807 - General Preparation (WetChem)										
Blank (EL60807-BLK1)				Prepared & Analyzed: 12/07/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EL60807-BS1)				Prepared & Analyzed: 12/07/06						
Bicarbonate Alkalinity	186	2.00	mg/L	200		93.0	85-115			
Duplicate (EL60807-DUP1)	**Source: 6L07012-01**			Prepared & Analyzed: 12/07/06						
Total Alkalinity	182	2.00	mg/L		184			1.09	20	
Reference (EL60807-SRM1)				Prepared & Analyzed: 12/07/06						
Total Alkalinity	246		mg/L	250		98.4	90-110			

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Rice Operating Co.	Project: Justis H-2 SWD	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 EL60805 - 6010B/No Digestion										
Blank (EL60805-BLK1)				Prepared: 12/08/06 Analyzed: 12/11/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EL60805-CCV1)				Prepared: 12/08/06 Analyzed: 12/11/06						
Calcium	2.02		mg/L	2.00		101	85-115			
Magnesium	2.03		"	2.00		102	85-115			
Potassium	1.77		"	2.00		88.5	85-115			
Sodium	2.00		"	2.00		100	85-115			
Duplicate (EL60805-DUP1)	**Source: 6L07012-01**			Prepared: 12/08/06 Analyzed: 12/11/06						
Calcium	61.4	4.05	mg/L		66.4			7.82	20	
Magnesium	13.4	0.360	"		12.5			6.95	20	
Potassium	3.81	0.600	"		3.24			16.2	20	
Sodium	73.2	2.15	"		78.4			6.86	20	

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Rice Operating Co.	Project: Justis H-2 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
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 K Tuttle Date: 12/19/2006

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.

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: Justis H-2 SWD

Project #:

Project Loc: T26S R37E Sec2H ~ Lea County New Mexico

PO #:

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

(lab use only)
ORDER #: 6L0703

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 (2) 40 ml glass vials	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: TX 1005 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	Semivolatiles	8015B	8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			12/5/2006	11:20		3	X		2				1		GW					X	X					X			X				X
02	Monitor Well #2			12/5/2006	11:25		3	X		2				1		GW					X	X					X			X				X
03	Monitor Well #3			12/5/2006	12:20		3	X		2				1		GW					X	X					X			X				X
04	Monitor Well #4			12/5/2006	13:10		3	X		2				1		GW					X	X					X			X				X
05	Monitor Well #5			12/5/2006	13:55		3	X		2				1		GW					X	X					X			X				X

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

FAC

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	12-7-06	10:50			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				12/7/06	10:50

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 by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: -2.0 °C
not known

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: RSC Op.

Date/ Time: 12/7/16 10:50

Lab ID #: 16L07013

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	-2.0 °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