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REPORTS

DATE:

2-26-07

ARCADIS
Infrastructure, environment, facilities

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CERTIFIED MAIL
RETURN RECEIPT NO. 7002 2410 0001 5812 9824

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

ENVIRONMENTAL
2007 MAR 2 P 12 37

Date:
February 26, 2007

Contact:
Sharon E. Hall

Phone:
432 687-5400

Email:
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Our ref:
MT000821.0001

IR487

Subject:
2006 MONITOR WELL REPORT
GROUNDWATER REMEDIATION/MONITORING
N-6 PIPELINE LEAK, WEST COUNTY ROAD SITE
HOBBS SWD SYSTEM
SW1/4, NW ¼, SEC. 5 & 6, T19S, R38E, LEA COUNTY, NEW MEXICO

Dear Mr. Hansen:

Rice Operating Company (ROC) takes this opportunity to submit the 2006 Monitor Well Report for the Hobbs Salt Water Disposal (SWD) System N-6 Release Site. The site is located immediately south of the intersection of Highway 62-180 and the South Loop of the Hobbs West County Road By-Pass.

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

Groundwater Sampling

Wells are sampled quarterly in accordance with NMOCD guidelines. The attached table summarizes the analytical results from groundwater samples collected from monitor wells in 2006. 2006 groundwater laboratory reports are also attached.

Free Product Removal

In 1994, a leak was discovered in a buried SWD pipeline. An assessment program was completed and a free product recovery program initiated. The free product has historically been collected from Monitor Well 1, initially in 1996 in conjunction with groundwater recovery, and then beginning in 2000 with product recovery only. During 2006, PSH recovery was conducted by weekly replacement of a sorbant sock placed in the well. Product thickness and recovery information is shown in the attached table.

A biosparge well designed to maximize in-situ biodegradation and minimize volatilization of hydrocarbons was installed at the site and became operational in August 2005. Four borings were drilled on November 8 and 9, 2006 in order to evaluate hydrocarbon occurrence in the vadose zone. Based on drilling observations a second biosparge well was installed approximately 30 feet east of the original biosparge well. It is anticipated that the second biosparge well will be operational in March 2007.

Biosparge Well Operation and Evaluation

A biosparge well designed to maximize in-situ biodegradation and minimize volatilization of hydrocarbons was installed at the site and became operational in August 2005. The operation was optimized by October 2005. Preliminary evaluation indicates that the well is effective in the remediation of free-phase hydrocarbons at the site. This is evidenced by an increased average product thickness in MW-1 interpreted to be a result of the formation of biosurfactants, indicative of active bioremediation. Preliminary biochemical results also suggest groundwater chemistry indicative of bioremediation, however, additional sampling (1 to 2 additional quarters) will be necessary to evaluate the groundwater chemistry. Operation of the existing biosparge well and a second biosparge that is expected to be operational in March 2007 in conjunction with use of absorbent socks and evaluation of its effectiveness will continue in 2007.

Recommendations

Based on the historical analytical results, ARCADIS recommends modification of the sampling at the site. With the exception of MW-3, all of the monitoring wells have exhibited chloride concentrations below the WQCC standard of 250 mg/L and TDS concentrations below the WQCC standard of 1,000 mg/L for the last 7 consecutive quarters. Further, chloride and TDS concentrations in MW-2, MW-4, and MW-6 have

been below WQCC standards for the last 12 consecutive quarters. MW-5 exhibited a spike in chloride and TDS concentrations in March 2004 and MW-7 exhibited a spike in concentrations in March 2003 and March 2004 above the WQCC standards. IWW exhibited a spike in concentrations in March 2004 and March 2005. The consistently low concentrations for all other sampling events suggest that these concentration spikes are anomalous and may be indicative of laboratory error. It is recommended that sampling of these wells be discontinued and the wells plugged.

The source of chloride impact was removed in 1994 and groundwater recovery to remove chlorides was initiated in 1996, yet MW-3 continues to exhibit elevated chloride and TDS concentrations. This well, unlike the others at the site, was drilled to the base of the Ogallala which is underlain by Triassic red-beds. The elevated chloride, TDS and sulfate concentrations in this well are markedly higher than the other wells at the site and are strongly indicative of naturally occurring geochemical conditions at the base of the Ogallala. Therefore, it is recommended that sampling of MW-3 be discontinued and the well plugged.

Product removal from MW-1 will continue in 2006. Operation and sampling of the biosparge wells will continue in 2007, and the effectiveness of the biosparge wells in remediation of hydrocarbons at the site evaluated.

Thank you for consideration concerning this information. Should you have any questions regarding this submission, please do not hesitate to contact me.

Sincerely,

ARCADIS U.S., Inc.

Sharon E. Hall

Sharon E. Hall
Site Evaluation Department Manager

Copies:
Kristin Pope, ROC (3 copies)

ARC ENVIRONMENTAL

FIELD MEASUREMENT/OBSERVATION LOG

PROJECT NAME: RICE Operating Company
NM=Not Measured
NA= Not Applicable

PROJECT NUMBER: Hobbs N-6 Leak

PROJECT MANAGER: Kristin Farris Pope - Rice Operating Company

FIELD TECHNICIAN: Rozanne Johnson, Arc Environmental

DATE: Weekly Gauge, Purge, Sock Change, October 2006 - December 2006

WELL # /SAMPLE LOCATION	TOTAL WELL DEPTH (feet)	DEPTH TO PRODUCT (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	PSH THICKNESS (feet)	pH Before Purge / After Purge	Water Removed (gallons)		DATE SAMPLE TAKEN	Comments
Bio Sparge	64.90	64.90	39.70	25.20	No Detect	8.86/7.53	70		10/5/2006	2' / 2" sock stained to 24" -Sock Replaced
Bio Sparge	64.10	64.10	39.66	24.44	No Detect	8.05	0		10/9/2006	2' / 2" sock stained to 24" Sock Pulled & Not Replaced - Well Will Not Be Purged
Bio Sparge	64.10	64.10	39.66	24.44	No Detect	8.75	0		10/11/2006	
Bio Sparge	64.10	64.10	39.68	24.42	No Detect	9.10	0		10/13/2006	
Bio Sparge	64.10	64.10	39.66	24.44	No Detect	8.03	0		10/16/2006	Compressor Down
Bio Sparge	64.05	64.05	39.71	24.34	No Detect	7.82	0		10/18/2006	Compressor Down
Bio Sparge	63.98	63.98	39.69	24.29	No Detect	9.14	0		10/20/2006	Compressor Back Up
Bio Sparge	63.70	63.70	39.83	23.87	No Detect	9.61	0		10/26/2006	Well Depth is Starting To Change.
Bio Sparge	63.70	63.70	39.85	23.85	No Detect	9.42	0		11/3/2006	
Bio Sparge	63.72	63.72	39.90	23.82	No Detect	9.31	0		11/9/2006	
Bio Sparge	63.75	63.75	39.92	23.83	No Detect	9.43/7.51	50		11/15/2006	Well Sampled for Q4
Bio Sparge	63.74	63.74	39.95	23.79	No Detect	9.46	0		12/6/2006	
Bio Sparge										
Bio Sparge										

ARC ENVIRONMENTAL

FIELD MEASUREMENT/OBSERVATION LOG

PROJECT NAME: *RICE Operating Company*

PROJECT NUMBER: Hobbs N-6 Leak

PROJECT MANAGER: Kristin Farris Pope - Rice Operating Company

FIELD TECHNICIAN: Rozanne Johnson, Arc Environmental

DATE: Weekly Gauge, Purge, Sock Change, October 2006 - December 2006

WELL # /SAMPLE LOCATION	TOTAL WELL DEPTH (feet)	DEPTH TO PRODUCT (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	PSH THICKNESS (feet)		Water Removed (gallons)		DATE SAMPLE TAKEN	Comments
Bio Sparge #2	73.32	73.32	42.55	30.77	No Detect				11/10/2006	Well Developed
Bio Sparge #2	73.32	73.32	42.59	30.73	No Detect		0		11/15/2006	Well Sampled for Q4 ~ Sock placed in well.
Bio Sparge #2				0.00			0		11/22/2006	Checked Sock - Sock Stained to 4" Sock Placed Back in Well.
Bio Sparge #2	73.32	73.32	42.63	30.69	No Detect		0		11/30/2006	19" Sock Stained to 7" ~ Sock Replaced
Bio Sparge #2	73.32	73.32	42.67	30.65	No Detect		0		12/6/2006	19" Sock Stained to 8" ~ Sock Replaced

N-6 IWW

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
IWW	40.42	98.25	58.98	176.95	8/14/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
IWW	40.79	98.18	37.3	111.91	3/14/2003	239	XXX	0.004	<0.001	<0.001	<0.001	110
IWW	40.45	98.24	37.56	112.69	6/27/2003	40.7	465	<0.001	<0.001	<0.001	<0.001	102
IWW	40.43	98.2	37.78	113.34	9/22/2003	42.5	493	<0.001	<0.001	<0.001	<0.001	79.6
IWW	40.33	98.23	37.8	113.42	12/18/2003	52	485	<0.002	<0.002	<0.002	<0.006	38.6
IWW	41.75	98.23	82.96	248.9	3/15/2004	487	1130	0.00619	<0.001	<0.001	<0.001	130
IWW	40.12	98.22	37.93	113.81	5/27/2004	40.8	474	<0.001	<0.001	<0.001	<0.001	100
IWW	41.93	98.2	57.4	172.19	9/8/2004	78	583	<0.001	<0.001	<0.001	<0.001	89.6
IWW	39.71	98.2	59.66	178.98	11/23/2004	88.3	XXX	<0.001	<0.001	<0.001	<0.001	82.5
IWW	39.01	98.2	XXX	250	3/29/2005	419	1010	<0.001	<0.001	<0.001	<0.001	81
IWW	39.39	50	XXX	21	6/28/2005	85.3	510	<0.001	<0.001	<0.001	<0.001	73.5
IWW	39.6	98.2	59.8	185	12/6/2005	49	498	<0.001	<0.001	<0.001	<0.001	64.2
IWW	39.83	98.2	59.5	180	2/28/2006	41.9	532	<0.001	<0.001	<0.001	<0.001	60.3
IWW	40.2	98.2	59.2	180	6/5/2006	44.5	494	<0.001	<0.001	<0.001	<0.001	61.1
	39.76	98.2	59.6	180	9/12/2006	38.8	528	<0.001	<0.001	<0.001	<0.001	80.7
IWW	39.61	98.2	59.8	180	11/14/2006	43.7	434	<0.001	<0.001	<0.001	<0.001	78.1

N-6 Monitor Well MW-2

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
2	40.2	52.18	7.78	23.36	8/14/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2	40.34	52.11	7.65	22.75	12/6/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2	40.61	52.2	7.53	22.6	3/14/2003	53.2	XXX	0.003	0.001	0.006	0.004	109
2	40.29	52.13	7.69	23.08	6/27/2003	40.8	499	<0.001	<0.001	<0.001	<0.001	112
2	40.26	52.14	7.75	23.27	9/22/2003	31.9	504	<0.001	<0.001	<0.001	<0.001	88.8
2	40.39	52.13	7.66	22.99	12/18/2003	44	458	<0.002	<0.002	<0.002	<0.006	37.7
2	41.53	52.13	6.92	20.76	3/15/2004	39	484	0.00458	<0.001	0.00236	0.001929	108
2	40.3	52.12	7.71	23.15	5/27/2004	31.9	481	0.000448	<0.001	0.000482	<0.001	89.4
2	41.69	52.24	6.86	20.57	9/8/2004	70.9	577	0.0289	0.00219	0.0126	0.00837	91.4
2	39.4	52.24	8.35	25.04	11/22/2004	58.1	XXX	0.0238	0.00269	0.0239	0.01051	90.2
2	38.73	52.24	XXX	32	3/29/2005	39.1	444	0.00169	<0.001	0.00151	0.00101	93.6
2	39.12	55	XXX	31.4	6/28/2005	42.4	515	<0.001	<0.001	<0.001	<0.001	100
2	39.21	55	XXX	31	9/6/2005	49.5	517	<0.001	<0.001	<0.001	<0.001	69.5
2	39.3	52.24	8.4	30	12/6/2005	58	380	0.00325	<0.001	<0.001	<0.001	107
2	39.56	52.24	8.2	25	2/28/2006	29.5	538	<0.001	<0.001	<0.001	<0.001	56.3
2	39.97	52.24	8	25	6/5/2006	38.5	552	<0.001	<0.001	<0.001	<0.001	76.6
2	39.44	52.24	8.3	25	9/11/2006	31.1	428	<0.001	<0.001	<0.001	<0.001	92
2	39.47	52.24	8.3	30	11/14/2006	33.6	442	j[0.000709]	<0.001	j[0.00609]	<0.001	91.7

N-6 Monitor Well MW-3

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
3	40.57	156.05	7.65	225.18	8/14/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3	40.76	156.02	74.92	224.76	12/6/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3	10.95	156.02	74.79	224.38	3/14/2003	5850	XXX	0.06	0.001	0.001	0.003	888
3	40.69	156.04	74.97	224.93	6/27/2003	5320	10700	0.013	<0.001	<0.001	0.001	1120
3	40.68	156.06	75.34	226.02	9/22/2003	5320	10900	0.008	<0.001	<0.001	0.001	1050
3	40.82	156.03	75.23	225.69	12/18/2003	5398	10512	0.018	<0.002	<0.002	<0.006	399
3	41.82	156.03	74.57	223.73	3/15/2004	5140	8990	0.0354	<0.001	0.000821	0.001646	793
3	40.83	156.05	75.23	225.71	5/27/2004	5230	8060	0.0131	0.000238	0.000248	0.000975	664
3	41.93	156.15	74.27	222.73	9/8/2004	5140	8600	0.0152	<0.001	0.00184	0.003572	762
3	39.64	156.15	75.73	227.19	11/23/2004	3890	XXX	0.0281	0.000202	0.000775	0.004491	683
3	38.73	156.15	XXX	235	3/29/2005	7300	14700	0.0805	<0.001	0.00291	0.00422	1030
3	39.35	156.15	XXX	39.35	6/28/2005	7280	8930	0.00619	<0.001	<0.001	<0.001	2760
3	39.43	155.78	XXX	40	9/6/2005	4660	7070	0.00566	<0.001	0.00219	0.00455	874
3	39.52	156.15	75.8	230	12/6/2005	7130	12100	0.0529	0.000572	0.00312	<0.001	848
3	39.82	156.15	75.6	230	2/28/2006	7270	15300	0.0315	0.00264	0.00535	<0.001	829
3	40.19	156.15	75.4	230	6/5/2006	7660	13600	0.0171	j[0.000488]	0.00258	<0.001	914
3	39.8	156.15	75.6	225	9/12/2006	7390	13100	0.0107	j[0.000587]	<0.001	<0.001	939
3	39.67	156.15	75.7	230	11/14/2006	6810	12600	0.00697	j[0.000417]	j[0.000413]	<0.001	901

N-6 Monitor Well MW-4

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
4	42.42	56.65	9.24	27.74	8/14/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
4	42.6	56.66	9.14	27.42	12/6/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
4	42.84	56.63	8.96	26.89	3/14/2003	84.2	XXX	<0.001	<0.001	<0.001	<0.001	123
4	42.58	56.65	9.14	27.43	6/27/2003	62	520	<0.001	<0.001	<0.001	0.002	138
4	42.66	56.7	9.16	27.5	9/22/2003	65	569	<0.001	<0.001	<0.001	<0.001	123
4	42.69	56.67	9.12	27.38	12/18/2003	64	547	<0.002	<0.002	<0.002	<0.006	44.8
4	43.77	56.67	8.42	25.27	3/15/2004	124	560	0.00103	<0.001	<0.001	<0.001	127
4	42.65	56.65	9.14	27.42	5/27/2004	49.6	484	<0.001	<0.001	<0.001	<0.001	107
4	43.92	56.71	8.31	24.94	9/8/2004	49.6	492	0.00142	<0.001	<0.001	<0.001	114
4	41.26	56.71	10.04	30.13	11/23/2004	55.2	XXX	<0.001	<0.001	<0.001	<0.001	99.2
4	40.85	56.71	XXX	32	3/29/2005	47	424	<0.001	<0.001	<0.001	<0.001	101
4	41.32	61.65	XXX	40	6/28/2005	44.8	519	<0.001	<0.001	<0.001	<0.001	102
4	41.42	61.65	XXX	40	9/6/2005	69.7	523	<0.001	<0.001	<0.001	<0.001	92.5
4	41.58	56.71	9.8	30	12/6/2005	40.4	370	<0.001	<0.001	<0.001	<0.001	82.2
4	41.84	56.71	9.7	30	2/28/2006	39.7	556	<0.001	<0.001	<0.001	<0.001	71.7
4	42.27	56.71	9.4	30	6/5/2006	59.2	476	<0.001	<0.001	<0.001	<0.001	76.2
4	41.66	56.71	9.8	30	9/11/2006	65.7	588	<0.001	<0.001	<0.001	<0.001	87
4	41.63	56.71	9.8	30	11/14/2006	93.4	498	<0.001	<0.001	<0.001	<0.001	90.8

N-6 Monitor Well MW-5

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
5	38.66	51.29	8.2	24.62	8/14/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5	38.82	51.18	8.01	24.04	12/6/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5	39.04	51.18	7.89	23.67	3/14/2003	39	XXX	<0.001	<0.001	<0.001	<0.001	105
5	38.81	51.21	8.06	24.18	6/27/2003	35.4	513	<0.001	<0.001	<0.001	0.002	120
5	51.2	38.77	8.11	24.35	9/22/2003	33.7	508	<0.001	<0.001	<0.001	<0.001	88.2
5	38.91	51.19	8.01	24.05	12/18/2003	56	474	<0.002	<0.002	<0.002	<0.006	39.4
5	40	51.19	7.3	21.92	3/15/2004	762	1620	0.0107	<0.001	0.000543	0.000876	216
5	38.9	51.19	8.02	24.07	5/27/2004	33.7	473	<0.001	<0.001	<0.001	<0.001	94
5	40.18	51.31	7.23	21.7	9/8/2004	35.4	517	<0.001	<0.001	<0.001	<0.001	79.4
5	38.12	51.31	8.57	25.72	11/23/2004	57.3	XXX	<0.001	<0.001	<0.001	<0.001	85.4
5	37.3	51.31	XXX	32	3/29/2005	35	449	<0.001	<0.001	<0.001	<0.001	83.1
5	XXX	XXX	XXX	XXX	6/28/2005	38.1	504	<0.001	<0.001	<0.001	<0.001	95.8
5	37.74	51.07	XXX	26.11	9/6/2005	66.8	488	<0.001	<0.001	<0.001	<0.001	103
5	37.8	51.31	8.8	30	12/6/2005	29.6	442	0.00044	<0.001	<0.001	<0.001	67
5	38.11	51.31	8.6	30	2/28/2006	27.9	504	<0.001	<0.001	<0.001	<0.001	62.8
5	38.48	51.31	8.3	30	6/5/2006	37.8	484	<0.001	<0.001	<0.001	<0.001	69
5	38.08	51.31	8.6	30	9/11/2006	39	596	<0.001	<0.001	<0.001	<0.001	81.2
5	37.94	51.31	8.7	30	11/14/2006	30.2	430	<0.001	<0.001	<0.001	<0.001	85

N-6 Monitor Well MW-6

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
6	40.7	52.98	1.96	5.89	8/14/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
6	40.87	53.02	1.94	5.83	12/6/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
6	41.1	53	1.9	5.71	3/14/2003	42.5	XXX	<0.001	<0.001	<0.001	<0.001	96.6
6	40.81	53.03	1.95	5.86	6/27/2003	35.4	743	<0.001	<0.001	<0.001	<0.001	97.5
6	40.79	52.97	1.98	5.95	9/22/2003	39	484	<0.001	<0.001	<0.001	<0.001	88.4
6	40.93	53	1.96	5.9	12/18/2003	44	452	<0.002	<0.002	<0.002	<0.006	36.8
6	42.02	53	1.78	5.36	3/15/2004	222	692	0.0026	<0.001	<0.001	<0.001	94.2
6	40.91	53.01	1.97	5.91	5/27/2004	31.9	443	<0.001	<0.001	<0.001	<0.001	86.6
6	42.16	53.1	1.75	5.25	9/8/2004	53.2	488	<0.001	<0.001	<0.001	<0.001	85
6	39.62	53.1	2.16	6.47	11/23/2004	76.1	XXX	<0.001	<0.001	<0.001	<0.001	84
6	39.14	53.1	XXX	8	3/29/2005	97.8	473	<0.001	<0.001	<0.001	<0.001	81.1
6	39.6	54.49	XXX	7.6	6/28/2005	122	541	<0.001	<0.001	0.000812	0.002845	103
6	39.61	61.65	XXX	10.78	9/6/2005	40.4	442	<0.001	<0.001	<0.001	<0.001	23.4
6	39.75	53.1	2.1	7	12/6/2005	52.7	458	<0.001	<0.001	<0.001	<0.001	58.2
6	40.06	53.1	2.1	7	2/28/2006	59.2	552	<0.001	<0.001	<0.001	<0.001	67.6
6	40.53	53.1	2	10	6/5/2006	67.2	512	<0.001	<0.001	<0.001	<0.001	72.2
6	40.05	53.1	2.1	10	9/11/2006	67.6	552	<0.001	<0.001	<0.001	<0.001	101
6	39.88	53.1	2.1	8	11/14/2006	53.9	464	<0.001	<0.001	<0.001	<0.001	95.4

N-6 Monitor Well MW-7

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
7	40.74	47.2	1.03	3.1	8/14/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
7	40.94	47.17	0.99	2.98	12/6/2002	XXX	XXX	XXX	XXX	XXX	XXX	XXX
7	41.22	47.18	0.95	2.86	3/14/2003	266	XXX	0.001	<0.001	<0.001	<0.001	XXX
7	40.88	47.15	1	3	6/27/2003	222	802	<0.001	<0.001	<0.001	<0.001	122
7	40.86	47.11	1.01	3.05	9/22/2003	222	861	<0.001	<0.001	<0.001	<0.001	133
7	41.03	47.18	1	3	12/18/2003	208	827	<0.002	<0.002	<0.002	<0.006	110
7	42.17	47.18	0.81	2.44	3/15/2004	1080	2220	0.0131	<0.001	<0.001	<0.001	44.4
7	41	47.15	1	3	5/27/2004	213	986	<0.001	<0.001	<0.001	<0.001	220
7	42.34	47.25	0.79	2.36	9/8/2004	230	731	<0.001	<0.001	<0.001	<0.001	105
7	39.82	47.25	1.19	178.98	11/23/2004	188	XXX	<0.001	<0.001	<0.001	<0.001	111
7	39.33	47.25	XXX	4	3/29/2005	234	791	<0.001	<0.001	<0.001	<0.001	96.1
7	39.6	47	XXX	3.7	6/28/2005	216	783	<0.001	<0.001	0.00114	0.0038	96.9
7	39.86	47	XXX	3.5	9/6/2005	187	802	<0.001	<0.001	<0.001	<0.001	76.9
7	39.93	47.25	1.2	4	12/6/2005	201	670	<0.001	<0.001	<0.001	<0.0001	85.2
7	40.27	47.25	1.1	4	2/28/2006	202	876	<0.001	<0.001	<0.001	<0.001	72.4
7	40.63	47.25	1.1	10	6/5/2006	225	794	<0.001	<0.001	<0.001	<0.001	74
7	40.17	47.25	1.1	10	9/11/2006	202	710	<0.001	<0.001	<0.001	<0.001	77.9
7	40.01	47.25	1.2	7	11/14/2006	223	764	<0.001	<0.001	<0.001	<0.001	86.5

N-6 Biosparge

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes
Bio Sparge	40.9	65.7	16.1	25	12/6/2005	92.6	608	0.0323	0.0209	0.107	0.0825
Bio Sparge	43.33	65.7	14.5	45	3/1/2006	105	912	0.44	0.0357	0.168	0.1195
Bio Sparge	41.08	65.7	16	50	6/5/2006	171	858	0.544	0.0125	1.142	0.03479
Bio Sparge	39.9	65.7	16.8	70	9/12/2006	142	1010	1.15	0.0283	0.207	0.04044
Bio Sparge	39.92	63.75	15.5	50	11/15/2006	283	1450	1.06	0.0298	0.159	0.0772

N-6 Biosparge

Sulfate
54.4
45
33.2
28.6

N-6 Biosparge 2

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene
Bio Sparge # 2	42.59	73.32	20	60	11/15/2006	81.8	522	0.0373	0.00314	0.0404

Total Xylenes	Sulfate
0.0994	107

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: Hobbs N-6 Leak

Project Number: None Given

Location: Lea County

Lab Order Number: 6C02020

Report Date: 03/15/06

Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #2	6C02020-01	Water	02/28/06 11:30	03/02/06 16:16
Monitor Well #3	6C02020-02	Water	02/28/06 19:00	03/02/06 16:16
Monitor Well #4	6C02020-03	Water	02/28/06 10:05	03/02/06 16:16
Monitor Well #5	6C02020-04	Water	02/28/06 15:10	03/02/06 16:16
Monitor Well #6	6C02020-05	Water	02/28/06 17:35	03/02/06 16:16
Monitor Well #7	6C02020-06	Water	02/28/06 09:00	03/02/06 16:16
IWW	6C02020-07	Water	02/28/06 13:45	03/02/06 16:16
Bio Sparge Well	6C02020-08	Water	03/01/06 10:40	03/02/06 16:16

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C02020-01) Water									
Benzene	ND	0.00100	mg/L	1	EC60703	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		*85.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6C02020-02) Water									
Benzene	**0.0315**	0.00100	mg/L	1	EC60703	03/07/06	03/08/06	EPA 8021B	
Toluene	**0.00264**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00535**	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		*104 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6C02020-03) Water									
Benzene	ND	0.00100	mg/L	1	EC60703	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		*81.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
Monitor Well #5 (6C02020-04) Water									
Benzene	ND	0.00100	mg/L	1	EC60703	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		*87.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #6 (6C02020-05) Water									
Benzene	ND	0.00100	mg/L	1	EC60703	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		*83.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
Monitor Well #7 (6C02020-06) Water									
Benzene	ND	0.00100	mg/L	1	EC60703	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		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		"	"	"	"	
IWW (6C02020-07) Water									
Benzene	ND	0.00100	mg/L	1	EC60703	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		*81.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
Bio Sparge Well (6C02020-08) Water									
Benzene	**0.440**	0.0100	mg/L	10	EC60703	03/07/06	03/08/06	EPA 8021B	
Toluene	**0.0357**	0.0100	"	"	"	"	"	"	
Ethylbenzene	**0.168**	0.0100	"	"	"	"	"	"	
Xylene (p/m)	**0.0753**	0.0100	"	"	"	"	"	"	
Xylene (o)	**0.0442**	0.0100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C02020-01) Water									
Total Alkalinity	**194**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**29.5**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**538**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**56.3**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**0.996**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	
Monitor Well #3 (6C02020-02) Water									
Total Alkalinity	**386**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**7270**	100	"	200	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**15300**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**829**	100	"	200	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**1.68**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	
Monitor Well #4 (6C02020-03) Water									
Total Alkalinity	**207**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**39.7**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**556**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**71.7**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**1.38**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	
Monitor Well #5 (6C02020-04) Water									
Total Alkalinity	**219**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**27.9**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**504**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**62.8**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**1.16**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	
Monitor Well #6 (6C02020-05) Water									
Total Alkalinity	**198**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**59.2**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**552**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**67.6**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**1.53**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #7 (6C02020-06) Water									
Total Alkalinity	**231**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**202**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**876**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**72.4**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**1.50**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	
IWW (6C02020-07) Water									
Total Alkalinity	**230**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**41.9**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**532**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**60.3**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**0.967**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	
Bio Sparge Well (6C02020-08) Water									
Total Alkalinity	**508**	2.00	mg/L	1	EC60905	03/09/06	03/09/06	EPA 310.1M	
Chloride	**105**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Dissolved Solids	**912**	5.00	"	1	EC60607	03/03/06	03/06/06	EPA 160.1	
Sulfate	**39.2**	5.00	"	10	EC60320	03/03/06	03/07/06	EPA 300.0	
Total Organic Carbon	**4.59**	0.500	"	1	EC60806	03/08/06	03/08/06	EPA 415.1	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C02020-01) Water									
Calcium	**72.7**	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**15.2**	0.0100	"	"	"	"	"	"	
Potassium	**3.71**	0.0500	"	1	"	"	"	"	
Sodium	**37.2**	0.100	"	10	"	"	"	"	
Iron	**0.125**	0.00200	"	1	EC60807	03/06/06	03/08/06	"	
Monitor Well #3 (6C02020-02) Water									
Calcium	**790**	2.00	mg/L	200	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**204**	0.0500	"	50	"	"	"	"	
Potassium	**78.5**	2.50	"	"	"	"	"	"	
Sodium	**4820**	10.0	"	1000	"	"	"	"	
Iron	**1.74**	0.00200	"	1	EC60807	03/06/06	03/08/06	"	
Monitor Well #4 (6C02020-03) Water									
Calcium	**45.6**	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**13.8**	0.0100	"	"	"	"	"	"	
Potassium	**3.67**	0.0500	"	1	"	"	"	"	
Sodium	**46.1**	0.100	"	10	"	"	"	"	
Iron	**1.29**	0.00200	"	1	EC60807	03/06/06	03/08/06	"	
Monitor Well #5 (6C02020-04) Water									
Calcium	**75.2**	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**14.6**	0.0100	"	"	"	"	"	"	
Potassium	**3.78**	0.0500	"	1	"	"	"	"	
Sodium	**45.0**	0.100	"	10	"	"	"	"	
Iron	**0.0513**	0.00200	"	1	EC60807	03/06/06	03/08/06	"	
Monitor Well #6 (6C02020-05) Water									
Calcium	**83.0**	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**16.4**	0.0100	"	"	"	"	"	"	
Potassium	**3.85**	0.0500	"	1	"	"	"	"	
Sodium	**41.2**	0.100	"	10	"	"	"	"	
Iron	**0.426**	0.00200	"	1	EC60807	03/06/06	03/08/06	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #7 (6C02020-06) Water									
Calcium	**41.6**	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**16.1**	0.0100	"	"	"	"	"	"	
Potassium	**3.78**	0.500	"	"	"	"	"	"	
Sodium	**137**	0.100	"	"	"	"	"	"	
Iron	**2.37**	0.00200	"	1	EC60807	03/06/06	03/08/06	"	
IWW (6C02020-07) Water									
Calcium	**24.1**	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**6.90**	0.0100	"	"	"	"	"	"	
Potassium	**5.35**	0.0500	"	1	"	"	"	"	
Sodium	**114**	0.500	"	50	"	"	"	"	
Iron	**0.150**	0.00200	"	1	EC60807	03/06/06	03/08/06	"	
Bio Sparge Well (6C02020-08) Water									
Calcium	**7.98**	0.100	mg/L	10	EC60711	03/07/06	03/07/06	EPA 6010B	
Magnesium	**17.3**	0.0100	"	"	"	"	"	"	
Potassium	**26.3**	0.500	"	"	"	"	"	"	
Sodium	**243**	0.500	"	50	"	"	"	"	
Iron	**12.5**	0.0200	"	10	EC60807	03/06/06	03/08/06	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

Dissolved Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6C02020-01) Water									
Iron	ND	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	
Monitor Well #3 (6C02020-02) Water									
Iron	**0.136**	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	
Monitor Well #4 (6C02020-03) Water									
Iron	**0.00820**	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	
Monitor Well #5 (6C02020-04) Water									
Iron	ND	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	
Monitor Well #6 (6C02020-05) Water									
Iron	ND	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	
Monitor Well #7 (6C02020-06) Water									
Iron	ND	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	
IWW (6C02020-07) Water									
Iron	**0.00860**	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	
Bio Sparge Well (6C02020-08) Water									
Iron	**0.0628**	0.00200	mg/L	1	EC60810	03/08/06	03/08/06	EPA 6010B	

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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 EC60703 - EPA 5030C (GC)										
Blank (EC60703-BLK1)				Prepared & Analyzed: 03/07/06						
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	*34.3*		*ug/l*	*40.0*		*85.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.2*		"	*40.0*		*88.0*	*80-120*			
LCS (EC60703-BS1)				Prepared & Analyzed: 03/07/06						
Benzene	0.0448	0.00100	mg/L	0.0500		89.6	80-120			
Toluene	0.0498	0.00100	"	0.0500		99.6	80-120			
Ethylbenzene	0.0566	0.00100	"	0.0500		113	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0580	0.00100	"	0.0500		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.7*		*ug/l*	*40.0*		*86.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.5*		"	*40.0*		*96.2*	*80-120*			
Calibration Check (EC60703-CCV1)				Prepared: 03/07/06 Analyzed: 03/08/06						
Benzene	42.4		ug/l	50.0		84.8	80-120			
Toluene	47.1		"	50.0		94.2	80-120			
Ethylbenzene	55.5		"	50.0		111	80-120			
Xylene (p/m)	115		"	100		115	80-120			
Xylene (o)	57.3		"	50.0		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.6*		"	*40.0*		*94.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.6*		"	*40.0*		*104*	*80-120*			
Matrix Spike (EC60703-MS1)	**Source: 6C02018-01**			Prepared: 03/07/06 Analyzed: 03/08/06						
Benzene	0.0402	0.00100	mg/L	0.0500	ND	80.4	80-120			
Toluene	0.0432	0.00100	"	0.0500	ND	86.4	80-120			
Ethylbenzene	0.0494	0.00100	"	0.0500	ND	98.8	80-120			
Xylene (p/m)	0.103	0.00100	"	0.100	ND	103	80-120			
Xylene (o)	0.0505	0.00100	"	0.0500	ND	101	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.8*		*ug/l*	*40.0*		*84.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.7*		"	*40.0*		*102*	*80-120*			

Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

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 EC60703 - EPA 5030C (GC)										
Matrix Spike Dup (EC60703-MSD1)		**Source: 6C02018-01**		Prepared: 03/07/06 Analyzed: 03/08/06						
Benzene	0.0432	0.00100	mg/L	0.0500	ND	86.4	80-120	7.19	20	
Toluene	0.0483	0.00100	"	0.0500	ND	96.6	80-120	11.1	20	
Ethylbenzene	0.0558	0.00100	"	0.0500	ND	112	80-120	12.5	20	
Xylene (p/m)	0.117	0.00100	"	0.100	ND	117	80-120	12.7	20	
Xylene (o)	0.0579	0.00100	"	0.0500	ND	116	80-120	13.8	20	
Surrogate: a,a,a-Trifluorotoluene	*34.0*		*ug/l*	*40.0*		*85.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.1*		*"*	*40.0*		*110*	*80-120*			

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

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	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

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 EC60806 - General Preparation (WetChem)										
Blank (EC60806-BLK1)				Prepared & Analyzed: 03/08/06						
Total Organic Carbon	ND	0.500	mg/L							
LCS (EC60806-BS1)				Prepared & Analyzed: 03/08/06						
Total Organic Carbon	8.01	0.500	mg/L	10.0		80.1	80-120			
Calibration Check (EC60806-CCV1)				Prepared & Analyzed: 03/08/06						
Total Organic Carbon	9.45		mg/L	10.0		94.5	80-120			
Duplicate (EC60806-DUP1)		**Source: 6B17004-02**		Prepared & Analyzed: 03/08/06						
Total Organic Carbon	65.8	0.500	mg/L		65.4			0.610	20	
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			

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

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	
Batch EC60807 - EPA 3005A										
Blank (EC60807-BLK1)				Prepared: 03/06/06 Analyzed: 03/08/06						
Iron	ND	0.00200	mg/L							
LCS (EC60807-BS1)				Prepared: 03/06/06 Analyzed: 03/08/06						
Iron	0.213	0.00200	mg/L	0.200		106	85-115			
LCS Dup (EC60807-BSD1)				Prepared: 03/06/06 Analyzed: 03/08/06						
Iron	0.217	0.00200	mg/L	0.200		108	85-115	1.86	20	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

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 EC60807 - EPA 3005A										
Calibration Check (EC60807-CCV1)				Prepared: 03/06/06 Analyzed: 03/08/06						
Iron	1.08		mg/L	1.00		108	90-110			
Matrix Spike (EC60807-MS1)		**Source: 6C02020-01**		Prepared: 03/06/06 Analyzed: 03/08/06						
Iron	0.254	0.00200	mg/L	0.200	0.125	64.5	75-125			PS-1
Post Spike (EC60807-PS1)		**Source: 6C02020-01**		Prepared: 03/06/06 Analyzed: 03/08/06						
Iron	0.376	0.00200	mg/L	0.200	0.125	126	85-115			PS-1

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/15/06 11:07

Dissolved 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 EC60810 - EPA 3005A										
Blank (EC60810-BLK1)				Prepared & Analyzed: 03/08/06						
Iron	ND	0.00200	mg/L							
LCS (EC60810-BS1)				Prepared & Analyzed: 03/08/06						
Iron	0.224	0.00200	mg/L	0.200		112	85-115			
LCS Dup (EC60810-BSD1)				Prepared & Analyzed: 03/08/06						
Iron	0.228	0.00200	mg/L	0.200		114	85-115	1.77	20	
Calibration Check (EC60810-CCV1)				Prepared & Analyzed: 03/08/06						
Iron	1.09		mg/L	1.00		109	90-110			
Matrix Spike (EC60810-MS1)		**Source: 6C02020-01**		Prepared & Analyzed: 03/08/06						
Iron	0.236	0.00200	mg/L	0.200	ND	118	75-125			
Matrix Spike Dup (EC60810-MSD1)		**Source: 6C02020-01**		Prepared & Analyzed: 03/08/06						
Iron	0.238	0.00200	mg/L	0.200	ND	119	75-125	0.844	20	

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Notes and Definitions

PS-1	Matix spike recoveries were outside method and/or historical control limits due to matrix interference. Interference was confirmed by similar results from a post matrix spike.
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: 3/15/2006

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: Hobbs N-6 Leak
Project #:
Project Loc: Lea County
PO #:

LAB # (lab use only) 6C02020	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl (2) 40 ml glass vials	NaOH	H2SO4 (1) 40 ml glass vial	None (1) 1 Liter HDPE	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TCLP: Cations (Ca, Mg, Na, K)	TCLP: Anions (Cl, SO4, CO3, HCO3)	TCLP: SAR / ESP / CEC	TCLP: Metals: As Ag Ba Cd Cr Pb Hg Se	TCLP: Volatiles	TCLP: Semivolatiles	TOTAL: BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids	Total Iron	Dissolved Iron	Total Organic Carbon			RUSH TAT (Pre-Schedule)	Standard TAT
-01	Monitor Well # 2	2/28/2006	11:30	4	X		2		1	1		X					X	X					X			X	X	X	X				X
-02	Monitor Well # 3	2/28/2006	19:00	4	X		2		1	1		X					X	X					X			X	X	X	X				X
-03	Monitor Well # 4	2/28/2006	10:05	4	X		2		1	1		X					X	X					X			X	X	X	X				X
-04	Monitor Well # 5	2/28/2006	15:10	4	X		2		1	1		X					X	X					X			X	X	X	X				X
-05	Monitor Well # 6	2/28/2006	17:35	4	X		2		1	1		X					X	X					X			X	X	X	X				X
-06	Monitor Well # 7	2/28/2006	9:00	4	X		2		1	1		X					X	X					X			X	X	X	X				X
-07	IWW	2/28/2006	13:45	4	X		2		1	1		X					X	X					X			X	X	X	X				X
-08	Bio Sparge Well	3/1/2006	10:40	4	X		2		1	1		X					X	X					X			X	X	X	X				X

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 frozen

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
			Jeanne McMurrey	03-02-06	1605

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

Client: Rice Operating Co.

Date/Time: 03-02-04 @ 1605

Order #: 6C02020

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-1.0 not frozen 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:

* Dissolved Fe filtered and acidified in lab
* Total Fe acidified in lab.

Variance Documentation:

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

Regarding:

Corrective Action Taken:

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: Hobbs N-6 Leak

Project Number: None Given

Location: Lea County

Lab Order Number: 6F06018

Report Date: 06/16/06

Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2	6F06018-01	Water	06/05/06 14:20	06/06/06 15:40
Monitor Well #3	6F06018-02	Water	06/05/06 15:00	06/06/06 15:40
Monitor Well #4	6F06018-03	Water	06/05/06 10:50	06/06/06 15:40
Monitor Well #5	6F06018-04	Water	06/05/06 09:15	06/06/06 15:40
Monitor Well #6	6F06018-05	Water	06/05/06 16:00	06/06/06 15:40
Monitor Well #7	6F06018-06	Water	06/05/06 13:00	06/06/06 15:40
IWW	6F06018-07	Water	06/05/06 11:20	06/06/06 15:40
Bio Sparge Well	6F06018-08	Water	06/05/06 17:30	06/06/06 15:40

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6F06018-01) Water									
Benzene	ND	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	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		*82.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6F06018-02) Water									
Benzene	**0.0171**	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	EPA 8021B	
Toluene	**J [0.000488]**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00258**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6F06018-03) Water									
Benzene	ND	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	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		*88.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.5 %*	*80-120*		"	"	"	"	
Monitor Well #5 (6F06018-04) Water									
Benzene	ND	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	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		*94.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #6 (6F06018-05) Water									
Benzene	ND	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	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		*85.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
Monitor Well #7 (6F06018-06) Water									
Benzene	ND	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	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		*97.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*80-120*		"	"	"	"	
IWW (6F06018-07) Water									
Benzene	ND	0.00100	mg/L	1	EF60716	06/07/06	06/09/06	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		*86.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*80-120*		"	"	"	"	
Bio Sparge Well (6F06018-08) Water									
Benzene	**0.544**	0.00500	mg/L	5	EF60716	06/07/06	06/09/06	EPA 8021B	
Toluene	**0.0125**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.142**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0276**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.00719**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6F06018-01) Water									
Total Alkalinity	**207**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**38.5**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**552**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**76.6**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	
Monitor Well #3 (6F06018-02) Water									
Total Alkalinity	**420**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**7660**	100	"	200	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**13600**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**914**	100	"	200	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**1.26**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	
Monitor Well #4 (6F06018-03) Water									
Total Alkalinity	**214**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**59.2**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**476**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**76.2**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**0.707**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	
Monitor Well #5 (6F06018-04) Water									
Total Alkalinity	**238**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**37.8**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**484**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**69.0**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	
Monitor Well #6 (6F06018-05) Water									
Total Alkalinity	**202**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**67.2**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**512**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**72.2**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**0.581**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Hobbs N-6 Leak 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 #7 (6F06018-06) Water									
Total Alkalinity	**242**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**225**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**794**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**74.0**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	
IWW (6F06018-07) Water									
Total Alkalinity	**256**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**44.5**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**494**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**61.1**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	
Bio Sparge Well (6F06018-08) Water									
Total Alkalinity	**450**	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	**171**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	**858**	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	**45.0**	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Organic Carbon	**1.49**	0.500	"	1	EF61302	06/12/06	06/12/06	EPA 415.1	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6F06018-01) Water									
Calcium	**91.6**	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**16.6**	0.0100	"	"	"	"	"	"	
Potassium	**2.26**	0.500	"	"	"	"	"	"	
Sodium	**27.9**	0.100	"	"	"	"	"	"	
Iron	**0.00960**	0.00200	"	1	EF60904	06/07/06	06/09/06	"	
Monitor Well #3 (6F06018-02) Water									
Calcium	**795**	1.00	mg/L	100	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**206**	0.100	"	"	"	"	"	"	
Potassium	**61.9**	5.00	"	"	"	"	"	"	
Sodium	**3730**	5.00	"	500	"	"	"	"	
Iron	**1.74**	0.00200	"	1	EF60904	06/07/06	06/09/06	"	
Monitor Well #4 (6F06018-03) Water									
Calcium	**80.6**	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**14.6**	0.0100	"	"	"	"	"	"	
Potassium	**2.18**	0.500	"	"	"	"	"	"	
Sodium	**50.6**	0.100	"	"	"	"	"	"	
Iron	**0.00500**	0.00200	"	1	EF60904	06/07/06	06/09/06	"	
Monitor Well #5 (6F06018-04) Water									
Calcium	**84.6**	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**14.6**	0.0100	"	"	"	"	"	"	
Potassium	**2.12**	0.500	"	"	"	"	"	"	
Sodium	**36.6**	0.100	"	"	"	"	"	"	
Iron	ND	0.00200	"	1	EF60904	06/07/06	06/09/06	"	
Monitor Well #6 (6F06018-05) Water									
Calcium	**109**	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**18.2**	0.0100	"	"	"	"	"	"	
Potassium	**2.13**	0.500	"	"	"	"	"	"	
Sodium	**32.3**	0.100	"	"	"	"	"	"	
Iron	ND	0.00200	"	1	EF60904	06/07/06	06/09/06	"	

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Hobbs N-6 Leak 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 #7 (6F06018-06) Water									
Calcium	**101**	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**18.4**	0.0100	"	"	"	"	"	"	
Potassium	**3.31**	0.500	"	"	"	"	"	"	
Sodium	**112**	0.500	"	50	"	"	"	"	
Iron	**0.00400**	0.00200	"	1	EF60904	06/07/06	06/09/06	"	
IWW (6F06018-07) Water									
Calcium	**38.5**	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**7.13**	0.0100	"	"	"	"	"	"	
Potassium	**2.90**	0.500	"	"	"	"	"	"	
Sodium	**95.4**	0.500	"	50	"	"	"	"	
Iron	**0.758**	0.00200	"	1	EF60904	06/07/06	06/09/06	"	
Bio Sparge Well (6F06018-08) Water									
Calcium	**39.7**	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	**23.2**	0.0100	"	"	"	"	"	"	
Potassium	**26.3**	0.500	"	"	"	"	"	"	
Sodium	**195**	0.500	"	50	"	"	"	"	
Iron	**0.516**	0.00200	"	1	EF60904	06/07/06	06/09/06	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Dissolved Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6F06018-01) Water									
Iron	**0.00920**	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	
Monitor Well #3 (6F06018-02) Water									
Iron	**0.100**	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	
Monitor Well #4 (6F06018-03) Water									
Iron	ND	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	
Monitor Well #5 (6F06018-04) Water									
Iron	ND	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	
Monitor Well #6 (6F06018-05) Water									
Iron	ND	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	
Monitor Well #7 (6F06018-06) Water									
Iron	ND	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	
IWW (6F06018-07) Water									
Iron	**0.0239**	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	
Bio Sparge Well (6F06018-08) Water									
Iron	**0.0170**	0.00200	mg/L	1	EF60905	06/09/06	06/09/06	EPA 6010B	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EF60716 - EPA 5030C (GC)										
Blank (EF60716-BLK1)				Prepared: 06/07/06 Analyzed: 06/09/06						
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	*34.4*		*ug/l*	*40.0*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.3*		*"*	*40.0*		*83.2*	*80-120*			
LCS (EF60716-BS1)				Prepared: 06/07/06 Analyzed: 06/08/06						
Benzene	0.0428	0.00100	mg/L	0.0500		85.6	80-120			
Toluene	0.0446	0.00100	"	0.0500		89.2	80-120			
Ethylbenzene	0.0420	0.00100	"	0.0500		84.0	80-120			
Xylene (p/m)	0.0893	0.00100	"	0.100		89.3	80-120			
Xylene (o)	0.0490	0.00100	"	0.0500		98.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.8*		*ug/l*	*40.0*		*82.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.5*		*"*	*40.0*		*96.2*	*80-120*			
Calibration Check (EF60716-CCV1)				Prepared: 06/07/06 Analyzed: 06/09/06						
Benzene	48.5		ug/l	50.0		97.0	80-120			
Toluene	50.0		"	50.0		100	80-120			
Ethylbenzene	52.4		"	50.0		105	80-120			
Xylene (p/m)	98.3		"	100		98.3	80-120			
Xylene (o)	51.1		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.0*		*"*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.7*		*"*	*40.0*		*81.8*	*80-120*			
Matrix Spike (EF60716-MS1)	**Source: 6F01010-01**			Prepared: 06/07/06 Analyzed: 06/09/06						
Benzene	0.0479	0.00100	mg/L	0.0500	ND	95.8	80-120			
Toluene	0.0469	0.00100	"	0.0500	ND	93.8	80-120			
Ethylbenzene	0.0446	0.00100	"	0.0500	ND	89.2	80-120			
Xylene (p/m)	0.0979	0.00100	"	0.100	ND	97.9	80-120			
Xylene (o)	0.0519	0.00100	"	0.0500	ND	104	80-120			
Surrogate: a,a,a-Trifluorotoluene	*33.8*		*ug/l*	*40.0*		*84.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.0*		*"*	*40.0*		*110*	*80-120*			

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

Project: Hobbs N-6 Leak
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 EF60716 - EPA 5030C (GC)										
Matrix Spike Dup (EF60716-MSD1)	**Source: 6F01010-01**			Prepared: 06/07/06 Analyzed: 06/09/06						
Benzene	0.0519	0.00100	mg/L	0.0500	ND	104	80-120	8.21	20	
Toluene	0.0510	0.00100	"	0.0500	ND	102	80-120	8.38	20	
Ethylbenzene	0.0480	0.00100	"	0.0500	ND	96.0	80-120	7.34	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	8.88	20	
Xylene (o)	0.0565	0.00100	"	0.0500	ND	113	80-120	8.29	20	
Surrogate: a,a,a-Trifluorotoluene	*40.8*		*ug/l*	*40.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.1*		"	*40.0*		*110*	*80-120*			

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Hobbs N-6 Leak 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 EF60810 - Filtration Preparation										
Blank (EF60810-BLK1)				Prepared & Analyzed: 06/07/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EF60810-DUP1)	**Source: 6F06018-01**			Prepared & Analyzed: 06/07/06						
Total Dissolved Solids	542	5.00	mg/L		552			1.83	5	
Batch EF60811 - General Preparation (WetChem)										
Blank (EF60811-BLK1)				Prepared & Analyzed: 06/08/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EF60811-BS1)				Prepared & Analyzed: 06/08/06						
Chloride	9.87	0.500	mg/L	10.0		98.7	80-120			
Sulfate	8.09	0.500	"	10.0		80.9	80-120			
Calibration Check (EF60811-CCV1)				Prepared & Analyzed: 06/08/06						
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	9.04		"	10.0		90.4	80-120			
Duplicate (EF60811-DUP1)	**Source: 6F06018-01**			Prepared & Analyzed: 06/08/06						
Sulfate	76.2	5.00	mg/L		76.6			0.524	20	
Chloride	38.5	5.00	"		38.5			0.00	20	
Duplicate (EF60811-DUP2)	**Source: 6F08002-01**			Prepared & Analyzed: 06/08/06						
Sulfate	278	50.0	mg/L		282			1.43	20	
Chloride	2030	50.0	"		2150			5.74	20	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EF60811 - General Preparation (WetChem)										
Matrix Spike (EF60811-MS1)	**Source: 6F06018-01**			Prepared & Analyzed: 06/08/06						
Chloride	132	5.00	mg/L	100	38.5	93.5	80-120			
Sulfate	142	5.00	"	100	76.6	65.4	75-125			QS-1
Matrix Spike (EF60811-MS2)	**Source: 6F08002-01**			Prepared & Analyzed: 06/08/06						
Sulfate	923	50.0	mg/L	1000	282	64.1	75-125			QS-1
Chloride	3330	50.0	"	1000	2150	118	80-120			
Batch EF60916 - General Preparation (WetChem)										
Blank (EF60916-BLK1)				Prepared & Analyzed: 06/09/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EF60916-BS1)				Prepared & Analyzed: 06/09/06						
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115			
Duplicate (EF60916-DUP1)	**Source: 6F06018-01**			Prepared & Analyzed: 06/09/06						
Total Alkalinity	206	2.00	mg/L		207			0.484	20	
Reference (EF60916-SRM1)				Prepared & Analyzed: 06/09/06						
Total Alkalinity	96.0		mg/L	100		96.0	90-110			
Batch EF61302 - General Preparation (WetChem)										
Blank (EF61302-BLK1)				Prepared & Analyzed: 06/12/06						
Total Organic Carbon	ND	0.500	mg/L							

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EF61302 - General Preparation (WetChem)										
LCS (EF61302-BS1)				Prepared & Analyzed: 06/12/06						
Total Organic Carbon	8.23	0.500	mg/L	10.0		82.3	80-120			
LCS Dup (EF61302-BSD1)				Prepared & Analyzed: 06/12/06						
Total Organic Carbon	8.23	0.500	mg/L	10.0		82.3	80-120	0.00	20	
Calibration Check (EF61302-CCV1)				Prepared & Analyzed: 06/12/06						
Total Organic Carbon	9.62		mg/L	10.0		96.2	80-120			
Duplicate (EF61302-DUP1)		**Source: 6F06018-01**		Prepared & Analyzed: 06/12/06						
Total Organic Carbon	0.572	0.500	mg/L		0.468			20.0	20	

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

Project: Hobbs N-6 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EF60804 - 6010B/No Digestion										
Blank (EF60804-BLK1)				Prepared & Analyzed: 06/08/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EF60804-CCV1)				Prepared & Analyzed: 06/08/06						
Calcium	2.12		mg/L	2.00		106	85-115			
Magnesium	2.10		"	2.00		105	85-115			
Potassium	1.95		"	2.00		97.5	85-115			
Sodium	2.02		"	2.00		101	85-115			
Duplicate (EF60804-DUP1)	**Source: 6F01010-01**			Prepared & Analyzed: 06/08/06						
Calcium	102	0.100	mg/L		100			1.98	20	
Magnesium	10.5	0.0100	"		9.85			6.39	20	
Potassium	3.96	0.500	"		4.06			2.49	20	
Sodium	27.4	0.100	"		30.6			11.0	20	
Batch EF60904 - EPA 3005A										
Blank (EF60904-BLK1)				Prepared: 06/07/06 Analyzed: 06/09/06						
Iron	ND	0.00200	mg/L							
LCS (EF60904-BS1)				Prepared: 06/07/06 Analyzed: 06/09/06						
Iron	0.202	0.00200	mg/L	0.200		101	85-115			
LCS Dup (EF60904-BSD1)				Prepared: 06/07/06 Analyzed: 06/09/06						
Iron	0.206	0.00200	mg/L	0.200		103	85-115	1.96	20	

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

Project: Hobbs N-6 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EF60904 - EPA 3005A										
Calibration Check (EF60904-CCV1)				Prepared: 06/07/06 Analyzed: 06/09/06						
Iron	1.01		mg/L	1.00		101	90-110			
Matrix Spike (EF60904-MS1)		Source: 6F06018-01		Prepared: 06/07/06 Analyzed: 06/09/06						
Iron	0.249	0.00200	mg/L	0.200	0.00960	120	75-125			
Matrix Spike Dup (EF60904-MSD1)		Source: 6F06018-01		Prepared: 06/07/06 Analyzed: 06/09/06						
Iron	0.250	0.00200	mg/L	0.200	0.00960	120	75-125	0.401	20	

Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Dissolved 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 EF60905 - 6010B/No Digestion										
Blank (EF60905-BLK1)				Prepared & Analyzed: 06/09/06						
Iron	ND	0.00200	mg/L							
LCS (EF60905-BS1)				Prepared & Analyzed: 06/09/06						
Iron	0.204	0.00200	mg/L	0.200		102	85-115			
LCS Dup (EF60905-BSD1)				Prepared & Analyzed: 06/09/06						
Iron	0.203	0.00200	mg/L	0.200		102	85-115	0.491	20	
Calibration Check (EF60905-CCV1)				Prepared & Analyzed: 06/09/06						
Iron	1.02		mg/L	1.00		102	90-110			
Matrix Spike (EF60905-MS1)		**Source: 6F06018-01**		Prepared & Analyzed: 06/09/06						
Iron	0.208	0.00200	mg/L	0.200	0.00920	99.4	75-125			
Matrix Spike Dup (EF60905-MSD1)		**Source: 6F06018-01**		Prepared & Analyzed: 06/09/06						
Iron	0.204	0.00200	mg/L	0.200	0.00920	97.4	75-125	1.94	20	

Notes and Definitions

QS-1	The spike recovery value is outside Laboratory historical or method prescribed QC limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 6/16/2006

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: Hobbs N-6 Leak
Project #:
Project Loc: Lea County
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3 - (1) 250 ml HDPE	Preservative: HCl (5) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: None (1) 250ml HDPE	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify): (1) 250 ml HDPE	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	Total Iron	Dissolved Iron (Lab Filtered)	Total Organic Carbon			RUSH TAT (Pre-Schedule)	Standard TAT
-01	Monitor Well # 2	6/5/2006	14:20	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-02	Monitor Well # 3	6/5/2006	15:00	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-03	Monitor Well # 4	6/5/2006	10:50	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-04	Monitor Well # 5	6/5/2006	9:15	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-05	Monitor Well # 6	6/5/2006	16:00	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-06	Monitor Well # 7	6/5/2006	13:00	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-07	IWW	6/5/2006	11:20	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-08	Bio Sparge Well	6/5/2006	17:30	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X

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: 1.5

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	6/6/06	3:40			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Carla Kelly	6/6/06	3:40

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

Client: Rice Dp.

Date/Time: 6/16/06 3:40

Order #: 6F06018

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.5 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:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

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: Hobbs N-6 Leak

Project Number: None Given

Location: T19S-R38E- Sect5&6- Unit E/H, Lea County, NM

Lab Order Number: 6I13002

Report Date: 10/03/06

Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2	6I13002-01	Water	09/11/06 15:15	09-13-2006 07:50
Monitor Well #3	6I13002-02	Water	09/12/06 12:55	09-13-2006 07:50
Monitor Well #4	6I13002-03	Water	09/11/06 11:50	09-13-2006 07:50
Monitor Well #5	6I13002-04	Water	09/11/06 14:05	09-13-2006 07:50
Monitor Well #6	6I13002-05	Water	09/11/06 12:45	09-13-2006 07:50
Monitor Well #7	6I13002-06	Water	09/11/06 10:45	09-13-2006 07:50
IWW	6I13002-07	Water	09/12/06 10:50	09-13-2006 07:50
Bio Sparge Well	6I13002-08	Water	09/12/06 08:10	09-13-2006 07:50

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6I13002-01) Water									
Benzene	ND	0.00100	mg/L	1	EI61318	09/13/06	09/14/06	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		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6I13002-02) Water									
Benzene	**0.0107**	0.00100	mg/L	1	EI61318	09/13/06	09/14/06	EPA 8021B	
Toluene	**J [0.000587]**	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		*89.5 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6I13002-03) Water									
Benzene	ND	0.00100	mg/L	1	EI61318	09/13/06	09/14/06	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		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*80-120*		"	"	"	"	
Monitor Well #5 (6I13002-04) Water									
Benzene	ND	0.00100	mg/L	1	EI61318	09/13/06	09/15/06	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		*82.5 %*	*80-120*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #6 (6I13002-05) Water									
Benzene	ND	0.00100	mg/L	1	EI61318	09/13/06	09/15/06	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		*83.8 %*	*80-120*		"	"	"	"	
Monitor Well #7 (6I13002-06) Water									
Benzene	ND	0.00100	mg/L	1	EI61318	09/13/06	09/15/06	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		*85.0 %*	*80-120*		"	"	"	"	
IWW (6I13002-07) Water									
Benzene	ND	0.00100	mg/L	1	EI61318	09/13/06	09/15/06	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		*99.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*80-120*		"	"	"	"	
Bio Sparge Well (6I13002-08) Water									
Benzene	**1.15**	0.00500	mg/L	5	EI61318	09/13/06	09/15/06	EPA 8021B	
Toluene	**0.0283**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.207**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0312**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.00924**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*80-120*		"	"	"	"	

Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6I13002-01) Water									
Total Alkalinity	**216**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**31.1**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**428**	10.0	"	1	EI61502	09/13/06	09/14/06	EPA 160.1	
Sulfate	**92.0**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**0.655**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	
Monitor Well #3 (6I13002-02) Water									
Total Alkalinity	**428**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**7390**	100	"	200	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**13100**	10.0	"	1	EI61502	09/13/06	09/15/06	EPA 160.1	
Sulfate	**939**	100	"	200	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**0.704**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	
Monitor Well #4 (6I13002-03) Water									
Total Alkalinity	**220**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**65.7**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**588**	10.0	"	1	EI61502	09/13/06	09/14/06	EPA 160.1	
Sulfate	**87.0**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	
Monitor Well #5 (6I13002-04) Water									
Total Alkalinity	**246**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**39.0**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**596**	10.0	"	1	EI61502	09/13/06	09/14/06	EPA 160.1	
Sulfate	**81.2**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**0.576**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	
Monitor Well #6 (6I13002-05) Water									
Total Alkalinity	**218**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**67.6**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**552**	10.0	"	1	EI61502	09/13/06	09/14/06	EPA 160.1	
Sulfate	**101**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #7 (6I13002-06) Water									
Total Alkalinity	**256**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**202**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**710**	10.0	"	1	EI61502	09/13/06	09/14/06	EPA 160.1	
Sulfate	**77.9**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	
IWW (6I13002-07) Water									
Total Alkalinity	**268**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**38.8**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**528**	10.0	"	1	EI61502	09/13/06	09/14/06	EPA 160.1	
Sulfate	**80.7**	5.00	"	10	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**0.725**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	
Bio Sparge Well (6I13002-08) Water									
Total Alkalinity	**652**	2.00	mg/L	1	EI61412	09/14/06	09/14/06	EPA 310.1M	
Chloride	**142**	10.0	"	20	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Dissolved Solids	**1010**	10.0	"	1	EI61502	09/13/06	09/14/06	EPA 160.1	
Sulfate	**33.2**	10.0	"	20	EI61313	09/13/06	09/13/06	EPA 300.0	
Total Organic Carbon	**1.84**	0.500	"	1	EI62510	09/21/06	09/21/06	EPA 415.1	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6113002-01) Water									
Calcium	**76.1**	0.810	mg/L	10	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**14.0**	0.360	"	"	"	"	"	"	
Potassium	**2.28**	0.600	"	"	"	"	"	"	
Sodium	**35.0**	0.430	"	"	"	"	"	"	
Iron	**0.0253**	0.0170	"	1	EI61803	09/18/06	09/18/06	"	
Monitor Well #3 (6113002-02) Water									
Calcium	**745**	20.2	mg/L	250	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**180**	1.80	"	50	"	"	"	"	
Potassium	**63.2**	3.00	"	"	"	"	"	"	
Sodium	**3890**	21.5	"	500	"	"	"	"	
Iron	**1.45**	0.0170	"	1	EI61803	09/18/06	09/18/06	"	
Monitor Well #4 (6113002-03) Water									
Calcium	**75.8**	0.810	mg/L	10	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**13.9**	0.360	"	"	"	"	"	"	
Potassium	**2.68**	0.600	"	"	"	"	"	"	
Sodium	**57.7**	0.430	"	"	"	"	"	"	
Iron	**0.0332**	0.0170	"	1	EI61803	09/18/06	09/18/06	"	
Monitor Well #5 (6113002-04) Water									
Calcium	**74.7**	0.810	mg/L	10	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**13.8**	0.360	"	"	"	"	"	"	
Potassium	**2.34**	0.600	"	"	"	"	"	"	
Sodium	**52.0**	0.430	"	"	"	"	"	"	
Iron	ND	0.0170	"	1	EI61803	09/18/06	09/18/06	"	
Monitor Well #6 (6113002-05) Water									
Calcium	**86.8**	0.810	mg/L	10	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**16.0**	0.360	"	"	"	"	"	"	
Potassium	**2.16**	0.600	"	"	"	"	"	"	
Sodium	**39.7**	0.430	"	"	"	"	"	"	
Iron	ND	0.0170	"	1	EI61803	09/18/06	09/18/06	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #7 (6I13002-06) Water									
Calcium	**95.6**	0.810	mg/L	10	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**15.8**	0.360	"	"	"	"	"	"	
Potassium	**3.24**	0.600	"	"	"	"	"	"	
Sodium	**105**	0.430	"	"	"	"	"	"	
Iron	ND	0.0170	"	1	EI61803	09/18/06	09/18/06	"	
IWW (6I13002-07) Water									
Calcium	**35.5**	0.810	mg/L	10	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**7.12**	0.360	"	"	"	"	"	"	
Potassium	**3.15**	0.600	"	"	"	"	"	"	
Sodium	**112**	0.430	"	"	"	"	"	"	
Iron	**0.175**	0.0170	"	1	EI61803	09/18/06	09/18/06	"	
Bio Sparge Well (6I13002-08) Water									
Calcium	**56.9**	0.810	mg/L	10	EI61402	09/14/06	09/14/06	EPA 6010B	
Magnesium	**34.1**	0.360	"	"	"	"	"	"	
Potassium	**38.6**	0.600	"	"	"	"	"	"	
Sodium	**246**	2.15	"	50	"	"	"	"	
Iron	**0.351**	0.0170	"	1	EI61803	09/18/06	09/18/06	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Dissolved Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6I13002-01) Water									
Iron	ND	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	
Monitor Well #3 (6I13002-02) Water									
Iron	**0.367**	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	
Monitor Well #4 (6I13002-03) Water									
Iron	ND	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	
Monitor Well #5 (6I13002-04) Water									
Iron	ND	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	
Monitor Well #6 (6I13002-05) Water									
Iron	ND	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	
Monitor Well #7 (6I13002-06) Water									
Iron	ND	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	
IWW (6I13002-07) Water									
Iron	**ND**	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	
Bio Sparge Well (6I13002-08) Water									
Iron	**0.0184**	0.0170	mg/L	1	EI61804	09/18/06	09/18/06	EPA 6010B	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EI61318 - EPA 5030C (GC)										
Blank (EI61318-BLK1)				Prepared: 09/13/06 Analyzed: 09/15/06						
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	*39.4*		*ug/l*	*40.0*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.5*		*"*	*40.0*		*81.2*	*80-120*			
LCS (EI61318-BS1)				Prepared: 09/13/06 Analyzed: 09/14/06						
Benzene	0.0559	0.00100	mg/L	0.0500		112	80-120			
Toluene	0.0461	0.00100	"	0.0500		92.2	80-120			
Ethylbenzene	0.0435	0.00100	"	0.0500		87.0	80-120			
Xylene (p/m)	0.0992	0.00100	"	0.100		99.2	80-120			
Xylene (o)	0.0509	0.00100	"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.8*		*ug/l*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.6*		*"*	*40.0*		*102*	*80-120*			
Calibration Check (EI61318-CCV1)				Prepared: 09/13/06 Analyzed: 09/14/06						
Benzene	0.0490		mg/L	0.0500		98.0	80-120			
Toluene	0.0438		"	0.0500		87.6	80-120			
Ethylbenzene	0.0442		"	0.0500		88.4	80-120			
Xylene (p/m)	0.0890		"	0.100		89.0	80-120			
Xylene (o)	0.0437		"	0.0500		87.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.8*		*ug/l*	*40.0*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.5*		*"*	*40.0*		*83.8*	*80-120*			
Matrix Spike (EI61318-MS1)	**Source: 6I13001-01**			Prepared: 09/13/06 Analyzed: 09/15/06						
Benzene	0.0544	0.00100	mg/L	0.0500	ND	109	80-120			
Toluene	0.0466	0.00100	"	0.0500	ND	93.2	80-120			
Ethylbenzene	0.0476	0.00100	"	0.0500	ND	95.2	80-120			
Xylene (p/m)	0.101	0.00100	"	0.100	ND	101	80-120			
Xylene (o)	0.0509	0.00100	"	0.0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.4*		*ug/l*	*40.0*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.7*		*"*	*40.0*		*96.8*	*80-120*			

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

Project: Hobbs N-6 Leak
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 EI61318 - EPA 5030C (GC)										
Matrix Spike Dup (EI61318-MSD1)	**Source: 6I13001-01**			Prepared: 09/13/06 Analyzed: 09/15/06						
Benzene	0.0551	0.00100	mg/L	0.0500	ND	110	80-120	0.913	20	
Toluene	0.0451	0.00100	"	0.0500	ND	90.2	80-120	3.27	20	
Ethylbenzene	0.0452	0.00100	"	0.0500	ND	90.4	80-120	5.17	20	
Xylene (p/m)	0.0940	0.00100	"	0.100	ND	94.0	80-120	7.18	20	
Xylene (o)	0.0492	0.00100	"	0.0500	ND	98.4	80-120	3.59	20	
Surrogate: a,a,a-Trifluorotoluene	*38.2*		*ug/l*	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.5*		*"*	*40.0*		*98.8*	*80-120*			

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
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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 EI61313 - General Preparation (WetChem)										
Blank (EI61313-BLK1)				Prepared & Analyzed: 09/13/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EI61313-BS1)				Prepared & Analyzed: 09/13/06						
Sulfate	10.8	0.500	mg/L	10.0		108	80-120			
Chloride	10.5	0.500	"	10.0		105	80-120			
Calibration Check (EI61313-CCV1)				Prepared & Analyzed: 09/13/06						
Sulfate	10.3		mg/L	10.0		103	80-120			
Chloride	10.1		"	10.0		101	80-120			
Duplicate (EI61313-DUP1)	**Source: 6I11006-01**			Prepared & Analyzed: 09/13/06						
Chloride	107	5.00	mg/L		108			0.930	20	
Sulfate	120	5.00	"		121			0.830	20	
Duplicate (EI61313-DUP2)	**Source: 6I13003-07**			Prepared & Analyzed: 09/13/06						
Chloride	72.3	5.00	mg/L		74.1			2.46	20	
Sulfate	73.3	5.00	"		72.7			0.822	20	
Matrix Spike (EI61313-MS1)	**Source: 6I11006-01**			Prepared & Analyzed: 09/13/06						
Chloride	208	5.00	mg/L	100	108	100	80-120			
Sulfate	219	5.00	"	100	121	98.0	80-120			
Matrix Spike (EI61313-MS2)	**Source: 6I13003-07**			Prepared & Analyzed: 09/13/06						
Chloride	181	5.00	mg/L	100	74.1	107	80-120			
Sulfate	180	5.00	"	100	72.7	107	80-120			

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI61412 - General Preparation (WetChem)										
Blank (EI61412-BLK1)				Prepared & Analyzed: 09/14/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EI61412-BS1)				Prepared & Analyzed: 09/14/06						
Total Alkalinity	190	2.00	mg/L	200		95.0	85-115			
Duplicate (EI61412-DUP1)	**Source: 6I11006-01**			Prepared & Analyzed: 09/14/06						
Total Alkalinity	192	2.00	mg/L		194			1.04	20	
Reference (EI61412-SRM1)				Prepared & Analyzed: 09/14/06						
Total Alkalinity	244		mg/L	250		97.6	90-110			
Batch EI61502 - Filtration Preparation										
Blank (EI61502-BLK1)				Prepared: 09/13/06 Analyzed: 09/14/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EI61502-DUP1)	**Source: 6I13001-01**			Prepared: 09/13/06 Analyzed: 09/14/06						
Total Dissolved Solids	808	10.0	mg/L		788			2.51	5	
Duplicate (EI61502-DUP2)	**Source: 6I13003-02**			Prepared: 09/13/06 Analyzed: 09/15/06						
Total Dissolved Solids	918	10.0	mg/L		940			2.37	5	
Batch EI62510 - General Preparation (WetChem)										
Blank (EI62510-BLK1)				Prepared & Analyzed: 09/21/06						
Total Organic Carbon	ND	0.500	mg/L							

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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 EI62510 - General Preparation (WetChem)										
LCS (EI62510-BS1)				Prepared & Analyzed: 09/21/06						
Total Organic Carbon	8.56	0.500	mg/L	10.0		85.6	80-120			
Calibration Check (EI62510-CCV1)				Prepared & Analyzed: 09/21/06						
Total Organic Carbon	9.34		mg/L	10.0		93.4	80-120			
Duplicate (EI62510-DUP1)		***Source: 6I13002-06***		Prepared & Analyzed: 09/21/06						
Total Organic Carbon	0.466	0.500	mg/L		0.440			5.74	20	

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

Project: Hobbs N-6 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 EI61402 - 6010B/No Digestion										
Blank (EI61402-BLK1)				Prepared & Analyzed: 09/14/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EI61402-CCV1)				Prepared & Analyzed: 09/14/06						
Calcium	2.18		mg/L	2.00		109	85-115			
Magnesium	2.18		"	2.00		109	85-115			
Potassium	1.84		"	2.00		92.0	85-115			
Sodium	1.91		"	2.00		95.5	85-115			
Duplicate (EI61402-DUP1)	**Source: 6I11006-01**			Prepared & Analyzed: 09/14/06						
Calcium	51.8	0.810	mg/L		51.8			0.00	20	
Magnesium	29.0	0.360	"		29.0			0.00	20	
Potassium	5.34	0.600	"		5.64			5.46	20	
Sodium	72.1	0.430	"		75.0			3.94	20	
Batch EI61803 - EPA 3005A										
Blank (EI61803-BLK1)				Prepared & Analyzed: 09/18/06						
Iron	ND	0.0170	mg/L							
LCS (EI61803-BS1)				Prepared & Analyzed: 09/18/06						
Iron	0.201	0.0170	mg/L	0.200		100	85-115			
LCS Dup (EI61803-BSD1)				Prepared & Analyzed: 09/18/06						
Iron	0.203	0.0170	mg/L	0.200		102	85-115	0.990	20	

Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
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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 EI61803 - EPA 3005A										
Calibration Check (EI61803-CCV1)				Prepared & Analyzed: 09/18/06						
Iron	1.05		mg/L	1.00		105	90-110			
Matrix Spike (EI61803-MS1)		**Source: 6I13002-01**		Prepared & Analyzed: 09/18/06						
Iron	0.202	0.0170	mg/L	0.200	0.0253	88.4	75-125			
Matrix Spike Dup (EI61803-MSD1)		**Source: 6I13002-01**		Prepared & Analyzed: 09/18/06						
Iron	0.200	0.0170	mg/L	0.200	0.0253	87.4	75-125	0.995	20	

Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Dissolved 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 EI61804 - 6010B/No Digestion										
Blank (EI61804-BLK1)				Prepared & Analyzed: 09/18/06						
Iron	ND	0.0170	mg/L							
LCS (EI61804-BS1)				Prepared & Analyzed: 09/18/06						
Iron	0.202	0.0170	mg/L	0.200		101	85-115			
LCS Dup (EI61804-BSD1)				Prepared & Analyzed: 09/18/06						
Iron	0.205	0.0170	mg/L	0.200		102	85-115	1.47	20	
Calibration Check (EI61804-CCV1)				Prepared & Analyzed: 09/18/06						
Iron	1.08		mg/L	1.00		108	90-110			
Matrix Spike (EI61804-MS1)	**Source: 6I13002-01**			Prepared & Analyzed: 09/18/06						
Iron	0.217	0.0170	mg/L	0.200	ND	108	75-125			
Matrix Spike Dup (EI61804-MSD1)	**Source: 6I13002-01**			Prepared & Analyzed: 09/18/06						
Iron	0.215	0.0170	mg/L	0.200	ND	108	75-125	0.926	20	

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

Project: Hobbs N-6 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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: 10/3/2006

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
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: Hobbs N-6 Leak
Project #:
Project Loc: T19S-R38E-Sec 5&6-Unit E/H-Lea County, NM
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3 - (1) 250 ml HDPE	Preservative: HCl (5) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: None (1) 250ml HDPE	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify): (1) 250 ml HDP	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	Total Iron	Dissolved Iron (Lab Filtered)	Total Organic Carbon			RUSH TAT (Pre-Schedule)	Standard TAT
																TCLP:							TOTAL:											
-01	Monitor Well # 2	9/11/2006	15:15	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-02	Monitor Well # 3	9/12/2006	12:55	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-03	Monitor Well # 4	9/11/2006	11:50	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-04	Monitor Well # 5	9/11/2006	14:05	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-05	Monitor Well # 6	9/11/2006	12:45	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-06	Monitor Well # 7	9/11/2006	10:45	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-07	IWW	9/12/2006	10:50	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X
-08	Bio Sparge Well	9/12/2006	8:10	8	X	1	5			1	1	X					X	X					X			X	X	X	X				X

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: 2.0 °C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	9/13/06	5:00	James Johnson	9/13/06	5:01
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
James Johnson	9/13/06	0750		9-13-06	0750

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Op.

Date/ Time: 9/13/10 11:50

Lab ID # : 10-13002

Initials: CL

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	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

_____

_____

_____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF

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Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Hobbs N-6 Leak

Project Number: None Given

Location: T19S R38E Sec.5 & 6 E/H- Lea County, NM

Lab Order Number: 6K15017

Report Date: 12/01/06

Rice Operating Co.	Project: Hobbs N-6 Leak	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
Biosparge Well #1	6K15017-01	Water	11/15/06 13:55	11-15-2006 16:00
Biosparge Well #2	6K15017-02	Water	11/15/06 12:50	11-15-2006 16:00

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Rice Operating Co.	Project: Hobbs N-6 Leak	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
Biosparge Well #1 (6K15017-01) Water									
Benzene	**1.06**	0.00500	mg/L	5	EK61614	11/16/06	11/20/06	EPA 8021B	
Toluene	**0.0298**	0.00500	"	"	"	"	"	"	
Ethylbenzene	**0.159**	0.00500	"	"	"	"	"	"	
Xylene (p/m)	**0.0475**	0.00500	"	"	"	"	"	"	
Xylene (o)	**0.0297**	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*132 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*90.8 %*	*80-120*		"	"	"	"	
Biosparge Well #2 (6K15017-02) Water									
Benzene	**0.0373**	0.00100	mg/L	1	EK61614	11/16/06	11/17/06	EPA 8021B	
Toluene	**0.00314**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.0404**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.0543**	0.00100	"	"	"	"	"	"	
Xylene (o)	**0.0451**	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*164 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*134 %*	*80-120*		"	"	"	"	*S-04*

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Rice Operating Co.	Project: Hobbs N-6 Leak	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
Biosparge Well #1 (6K15017-01) Water									
Total Alkalinity	**848**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**283**	12.5	"	25	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**1450**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**28.6**	12.5	"	25	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**3.44**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	
Biosparge Well #2 (6K15017-02) Water									
Total Alkalinity	**202**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**81.8**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**522**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**107**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**0.698**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Hobbs N-6 Leak 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
Biosparge Well #1 (6K15017-01) Water									
Calcium	**37.8**	4.05	mg/L	50	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**28.1**	0.360	"	10	"	"	"	"	
Potassium	**44.6**	0.600	"	"	"	"	"	"	
Sodium	**514**	2.15	"	50	"	"	"	"	
Iron	**0.286**	0.0170	"	1	EK61705	11/17/06	11/17/06	"	
Biosparge Well #2 (6K15017-02) Water									
Calcium	**70.0**	0.810	mg/L	10	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**17.0**	0.360	"	"	"	"	"	"	
Potassium	**9.15**	0.600	"	"	"	"	"	"	
Sodium	**59.0**	0.430	"	"	"	"	"	"	
Iron	**J [0.00340]**	0.0170	"	1	EK61705	11/17/06	11/17/06	"	J

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Dissolved Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Biosparge Well #1 (6K15017-01) Water									
Iron	**0.177**	0.0170	mg/L	1	EK61706	11/17/06	11/17/06	EPA 6010B	
Biosparge Well #2 (6K15017-02) Water									
Iron	**ND**	0.0170	mg/L	1	EK61706	11/17/06	11/17/06	EPA 6010B	

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

Project: Hobbs N-6 Leak
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 EK61614 - EPA 5030C (GC)										
Blank (EK61614-BLK1)				Prepared: 11/16/06 Analyzed: 11/17/06						
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	*47.8*		*ug/l*	*40.0*		*120*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.5*		*"*	*40.0*		*101*	*80-120*			
LCS (EK61614-BS1)				Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0594	0.00100	mg/L	0.0500		119	80-120			
Toluene	0.0562	0.00100	"	0.0500		112	80-120			
Ethylbenzene	0.0458	0.00100	"	0.0500		91.6	80-120			
Xylene (p/m)	0.0949	0.00100	"	0.100		94.9	80-120			
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*46.1*		*ug/l*	*40.0*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.2*		*"*	*40.0*		*110*	*80-120*			
Calibration Check (EK61614-CCV1)				Prepared: 11/16/06 Analyzed: 11/20/06						
Benzene	54.7		ug/l	50.0		109	80-120			
Toluene	48.5		"	50.0		97.0	80-120			
Ethylbenzene	42.1		"	50.0		84.2	80-120			
Xylene (p/m)	83.0		"	100		83.0	80-120			
Xylene (o)	43.3		"	50.0		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.4*		*"*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.0*		*"*	*40.0*		*92.5*	*80-120*			
Matrix Spike (EK61614-MS1)		**Source: 6K13007-01**		Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0551	0.00100	mg/L	0.0500		110	80-120			
Toluene	0.0498	0.00100	"	0.0500		99.6	80-120			
Ethylbenzene	0.0401	0.00100	"	0.0500		80.2	80-120			
Xylene (p/m)	0.0844	0.00100	"	0.100		84.4	80-120			
Xylene (o)	0.0442	0.00100	"	0.0500		88.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.1*		*ug/l*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.4*		*"*	*40.0*		*106*	*80-120*			

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

Project: Hobbs N-6 Leak
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 EK61614 - EPA 5030C (GC)										
Matrix Spike Dup (EK61614-MSD1)	**Source: 6K13007-01**			Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0580	0.00100	mg/L	0.0500		116	80-120	5.31	20	
Toluene	0.0550	0.00100	"	0.0500		110	80-120	9.92	20	
Ethylbenzene	0.0421	0.00100	"	0.0500		84.2	80-120	4.87	20	
Xylene (p/m)	0.0909	0.00100	"	0.100		90.9	80-120	7.42	20	
Xylene (o)	0.0455	0.00100	"	0.0500		91.0	80-120	2.90	20	
Surrogate: a,a,a-Trifluorotoluene	*46.3*		*ug/l*	*40.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.0*		*"*	*40.0*		*105*	*80-120*			

Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61507 - General Preparation (WetChem)										
Blank (EK61507-BLK1)				Prepared & Analyzed: 11/15/06						
Sulfate	0.579	0.500	mg/L							B
Chloride	ND	0.500	"							
LCS (EK61507-BS1)				Prepared & Analyzed: 11/15/06						
Sulfate	10.9	0.500	mg/L	10.0		109	80-120			
Chloride	11.1	0.500	"	10.0		111	80-120			
Calibration Check (EK61507-CCV1)				Prepared & Analyzed: 11/15/06						
Chloride	10.7		mg/L	10.0		107	80-120			
Sulfate	12.0		"	10.0		120	80-120			
Duplicate (EK61507-DUP1)	**Source: 6K15004-01**			Prepared & Analyzed: 11/15/06						
Chloride	232	5.00	mg/L		234			0.858	20	
Sulfate	79.9	5.00	"		79.8			0.125	20	
Duplicate (EK61507-DUP2)	**Source: 6K15006-07**			Prepared & Analyzed: 11/15/06						
Sulfate	78.2	5.00	mg/L		78.1			0.128	20	
Chloride	37.9	5.00	"		43.7			14.2	20	
Matrix Spike (EK61507-MS1)	**Source: 6K15004-01**			Prepared & Analyzed: 11/15/06						
Sulfate	175	5.00	mg/L	100	79.8	95.2	80-120			
Chloride	345	5.00	"	100	234	111	80-120			
Matrix Spike (EK61507-MS2)	**Source: 6K15006-07**			Prepared & Analyzed: 11/15/06						
Chloride	142	5.00	mg/L	100	43.7	98.3	80-120			
Sulfate	175	5.00	"	100	78.1	96.9	80-120			

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61605 - General Preparation (WetChem)										
Blank (EK61605-BLK1)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	ND	2.00	mg/L							
Blank (EK61605-BLK2)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EK61605-BS1)				Prepared & Analyzed: 11/17/06						
Bicarbonate Alkalinity	172		mg/L	200		86.0	85-115			
LCS (EK61605-BS2)				Prepared & Analyzed: 11/17/06						
Bicarbonate Alkalinity	172		mg/L	200		86.0	85-115			
Hydroxide Alkalinity	0.00	0.100	"				85-115			
Duplicate (EK61605-DUP1)	**Source: 6K15001-01**			Prepared & Analyzed: 11/17/06						
Total Alkalinity	238	2.00	mg/L		238			0.00	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	"		0.00				20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Duplicate (EK61605-DUP2)	**Source: 6K16005-01**			Prepared & Analyzed: 11/17/06						
Total Alkalinity	296	2.00	mg/L		300			1.34	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	"		300				20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EK61605-SRM1)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	238		mg/L	250		95.2	90-110			
Reference (EK61605-SRM2)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	238		mg/L	250		95.2	90-110			

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61611 - Filtration Preparation										
Blank (EK61611-BLK1)				Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EK61611-DUP1)	**Source: 6K15001-01**			Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	14000	10.0	mg/L		13200			5.88	5	QR-03
Duplicate (EK61611-DUP2)	**Source: 6K15005-03**			Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	586	10.0	mg/L		622			5.96	5	QR-03
Batch EK61709 - General Preparation (WetChem)										
Blank (EK61709-BLK1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	ND	0.500	mg/L							
LCS (EK61709-BS1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	8.22	0.500	mg/L	10.0		82.2	80-120			
LCS Dup (EK61709-BSD1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	8.25	0.500	mg/L	10.0		82.5	80-120	0.364	20	
Calibration Check (EK61709-CCV1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	10.1		mg/L	10.0		101	80-120			
Duplicate (EK61709-DUP1)	**Source: 6K09002-01**			Prepared & Analyzed: 11/17/06						
Total Organic Carbon	15.0	0.500	mg/L		14.6			2.70	20	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61703 - 6010B/No Digestion										
Blank (EK61703-BLK1)				Prepared & Analyzed: 11/17/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
***Calibration Check* (EK61703-CCV1)**				Prepared & Analyzed: 11/17/06						
Calcium	2.17		mg/L	2.00		108	85-115			
Magnesium	2.21		"	2.00		110	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.88		"	2.00		94.0	85-115			
Duplicate (EK61703-DUP1)	**Source: 6K15001-01**			Prepared & Analyzed: 11/17/06						
Calcium	1300	40.5	mg/L		1340			3.03	20	
Magnesium	461	3.60	"		461			0.00	20	
Potassium	55.7	0.600	"		53.2			4.59	20	
Sodium	2890	21.5	"		3100			7.01	20	
Batch EK61705 - EPA 3005A										
Blank (EK61705-BLK1)				Prepared & Analyzed: 11/17/06						
Iron	ND	0.0170	mg/L							
LCS (EK61705-BS1)				Prepared & Analyzed: 11/17/06						
Iron	0.229	0.0170	mg/L	0.200		114	85-115			
LCS Dup (EK61705-BSD1)				Prepared & Analyzed: 11/17/06						
Iron	0.222	0.0170	mg/L	0.200		111	85-115	3.10	20	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61705 - EPA 3005A										
Calibration Check (EK61705-CCV1)				Prepared & Analyzed: 11/17/06						
Iron	0.959		mg/L	1.00		95.9	90-110			
Matrix Spike (EK61705-MS1)		**Source: 6K16008-01**		Prepared & Analyzed: 11/17/06						
Iron	0.982	0.0170	mg/L	0.200	0.800	91.0	75-125			
Matrix Spike Dup (EK61705-MSD1)		**Source: 6K16008-01**		Prepared & Analyzed: 11/17/06						
Iron	0.986	0.0170	mg/L	0.200	0.800	93.0	75-125	0.407	20	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Dissolved 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 EK61706 - EPA 3005A										
Blank (EK61706-BLK1)				Prepared & Analyzed: 11/17/06						
Iron	ND	0.0170	mg/L							
LCS (EK61706-BS1)				Prepared & Analyzed: 11/17/06						
Iron	0.211	0.0170	mg/L	0.200		106	85-115			
LCS Dup (EK61706-BSD1)				Prepared & Analyzed: 11/17/06						
Iron	0.210	0.0170	mg/L	0.200		105	85-115	0.475	20	
Calibration Check (EK61706-CCV1)				Prepared & Analyzed: 11/17/06						
Iron	0.972		mg/L	1.00		97.2	90-110			
Matrix Spike (EK61706-MS1)		**Source: 6K15017-02**		Prepared & Analyzed: 11/17/06						
Iron	0.177	0.0170	mg/L	0.200	ND	88.5	75-125			
Matrix Spike Dup (EK61706-MSD1)		**Source: 6K15017-02**		Prepared & Analyzed: 11/17/06						
Iron	0.179	0.0170	mg/L	0.200	ND	89.5	75-125	1.12	20	

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Hobbs N-6 Leak Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: 12/1/2006

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

Project Name: Hobbs N-6 Leak

Company Name: RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: T19S R38E Sec 5 & 6 E/H ~ Lea County New Mexico

City/State/Zip: Hobbs, New Mexico 88240

PO #:

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

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

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

(lab use only)
ORDER #: 6K15017

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3 (1) 250 ml HDPE	HCl (5) 40 ml glass vials	H2SO4	NaOH	Na2S2O3	None (1) 1 Liter HDPE	None (1) 250 ml HDPE	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 8015B 8015M 418.1	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	Total Organic Carbon	Total Dissolved Solids	Total Iron	Dissolved Iron (Lab Filtered)	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Biosparge Well #1			11/15/2006	13:55		8	X	1	5				1	1	GW			X	X					X		X	X	X		X
02	Biosparge Well #2			11/15/2006	12:50		8	X	1	5				1	1	GW			X	X					X		X	X	X		X

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

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	11/15/06	4:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				11/15/06	4:00

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: 0.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Op.

Date/ Time: 11/15/06 4:00

Lab ID # : 6K15017

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	0.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Hobbs N-6 Leak

Project Number: None Given

Location: T19S R38E Sec.5&6 E/H- Lea County, NM

Lab Order Number: 6K15006

Report Date: 12/01/06

Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2	6K15006-01	Water	11/14/06 16:45	11-15-2006 08:10
Monitor Well #3	6K15006-02	Water	11/14/06 19:05	11-15-2006 08:10
Monitor Well #4	6K15006-03	Water	11/14/06 14:50	11-15-2006 08:10
Monitor Well #5	6K15006-04	Water	11/14/06 12:40	11-15-2006 08:10
Monitor Well #6	6K15006-05	Water	11/14/06 15:40	11-15-2006 08:10
Monitor Well #7	6K15006-06	Water	11/14/06 13:35	11-15-2006 08:10
IWW	6K15006-07	Water	11/14/06 11:20	11-15-2006 08:10

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

Project: Hobbs N-6 Leak
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 #2 (6K15006-01) Water									
Benzene	**J [0.000709]**	0.00100	mg/L	1	EK61614	11/16/06	11/17/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000609]**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6K15006-02) Water									
Benzene	**0.00697**	0.00100	mg/L	1	EK61614	11/16/06	11/20/06	EPA 8021B	
Toluene	**J [0.000417]**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**J [0.000413]**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**ND**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6K15006-03) Water									
Benzene	ND	0.00100	mg/L	1	EK61614	11/16/06	11/17/06	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		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.8 %*	*80-120*		"	"	"	"	
Monitor Well #5 (6K15006-04) Water									
Benzene	ND	0.00100	mg/L	1	EK61614	11/16/06	11/17/06	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		*84.0 %*	*80-120*		"	"	"	"	

Rice Operating Co.	Project: Hobbs N-6 Leak	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 #6 (6K15006-05) Water									
Benzene	ND	0.00100	mg/L	1	EK61614	11/16/06	11/17/06	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		*118 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.5 %*	*80-120*		"	"	"	"	
Monitor Well #7 (6K15006-06) Water									
Benzene	ND	0.00100	mg/L	1	EK61614	11/16/06	11/17/06	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		*90.2 %*	*80-120*		"	"	"	"	
IWW (6K15006-07) Water									
Benzene	ND	0.00100	mg/L	1	EK61614	11/16/06	11/20/06	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		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6K15006-01) Water									
Total Alkalinity	**212**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**33.6**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**442**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**91.7**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**0.700**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	
Monitor Well #3 (6K15006-02) Water									
Total Alkalinity	**420**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**6810**	100	"	200	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**12600**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**901**	100	"	200	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**1.04**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	
Monitor Well #4 (6K15006-03) Water									
Total Alkalinity	**220**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**93.4**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**498**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**90.8**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	
Monitor Well #5 (6K15006-04) Water									
Total Alkalinity	**258**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**30.2**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**430**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**85.0**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	
Monitor Well #6 (6K15006-05) Water									
Total Alkalinity	**226**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**53.9**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**464**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**95.4**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**ND**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #7 (6K15006-06) Water									
Total Alkalinity	**250**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**223**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**764**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**86.5**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**0.574**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	
IWW (6K15006-07) Water									
Total Alkalinity	**254**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**43.7**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**434**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**78.1**	5.00	"	10	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Organic Carbon	**0.879**	0.500	"	1	EK61709	11/17/06	11/17/06	EPA 415.1	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 #2 (6K15006-01) Water									
Calcium	**105**	0.810	mg/L	10	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**18.3**	0.360	"	"	"	"	"	"	
Potassium	**2.46**	0.600	"	"	"	"	"	"	
Sodium	**38.4**	0.430	"	"	"	"	"	"	
Iron	**ND**	0.0170	"	1	EK61702	11/17/06	11/17/06	"	
Monitor Well #3 (6K15006-02) Water									
Calcium	**860**	8.10	mg/L	100	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**218**	1.80	"	50	"	"	"	"	
Potassium	**74.5**	3.00	"	"	"	"	"	"	
Sodium	**4650**	21.5	"	500	"	"	"	"	
Iron	**1.72**	0.0170	"	1	EK61702	11/17/06	11/17/06	"	
Monitor Well #4 (6K15006-03) Water									
Calcium	**95.2**	0.810	mg/L	10	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**17.4**	0.360	"	"	"	"	"	"	
Potassium	**2.82**	0.600	"	"	"	"	"	"	
Sodium	**81.0**	0.430	"	"	"	"	"	"	
Iron	**0.0266**	0.0170	"	1	EK61702	11/17/06	11/17/06	"	
Monitor Well #5 (6K15006-04) Water									
Calcium	**85.9**	0.810	mg/L	10	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**17.6**	0.360	"	"	"	"	"	"	
Potassium	**2.48**	0.600	"	"	"	"	"	"	
Sodium	**53.1**	0.430	"	"	"	"	"	"	
Iron	**J [0.0126]**	0.0170	"	1	EK61702	11/17/06	11/17/06	"	J
Monitor Well #6 (6K15006-05) Water									
Calcium	**103**	0.810	mg/L	10	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**18.4**	0.360	"	"	"	"	"	"	
Potassium	**2.70**	0.600	"	"	"	"	"	"	
Sodium	**46.5**	0.430	"	"	"	"	"	"	
Iron	**J [0.00480]**	0.0170	"	1	EK61702	11/17/06	11/17/06	"	J

Rice Operating Co.	Project: Hobbs N-6 Leak	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 #7 (6K15006-06) Water									
Calcium	**121**	4.05	mg/L	50	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**18.9**	0.360	"	10	"	"	"	"	
Potassium	**4.12**	0.600	"	"	"	"	"	"	
Sodium	**148**	2.15	"	50	"	"	"	"	
Iron	**J [0.00520]**	0.0170	"	1	EK61702	11/17/06	11/17/06	"	J
IWW (6K15006-07) Water									
Calcium	**41.0**	0.810	mg/L	10	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**7.84**	0.360	"	"	"	"	"	"	
Potassium	**3.65**	0.600	"	"	"	"	"	"	
Sodium	**110**	2.15	"	50	"	"	"	"	
Iron	**0.305**	0.0170	"	1	EK61702	11/17/06	11/17/06	"	

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: Hobbs N-6 Leak Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471

Dissolved Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6K15006-01) Water									
Iron	**ND**	0.0170	mg/L	1	EK61701	11/17/06	11/17/06	EPA 6010B	
Monitor Well #3 (6K15006-02) Water									
Iron	**0.748**	0.0170	mg/L	1	EK61701	11/17/06	11/17/06	EPA 6010B	
Monitor Well #4 (6K15006-03) Water									
Iron	**0.0182**	0.0170	mg/L	1	EK61701	11/17/06	11/17/06	EPA 6010B	
Monitor Well #5 (6K15006-04) Water									
Iron	**J [0.0148]**	0.0170	mg/L	1	EK61701	11/17/06	11/17/06	EPA 6010B	J
Monitor Well #6 (6K15006-05) Water									
Iron	**ND**	0.0170	mg/L	1	EK61701	11/17/06	11/17/06	EPA 6010B	
Monitor Well #7 (6K15006-06) Water									
Iron	**J [0.00470]**	0.0170	mg/L	1	EK61701	11/17/06	11/17/06	EPA 6010B	J
IWW (6K15006-07) Water									
Iron	**J [0.0147]**	0.0170	mg/L	1	EK61701	11/17/06	11/17/06	EPA 6010B	J

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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 EK61614 - EPA 5030C (GC)										
Blank (EK61614-BLK1)				Prepared: 11/16/06 Analyzed: 11/17/06						
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	*47.8*		*ug/l*	*40.0*		*120*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.5*		*"*	*40.0*		*101*	*80-120*			
LCS (EK61614-BS1)				Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0594	0.00100	mg/L	0.0500		119	80-120			
Toluene	0.0562	0.00100	"	0.0500		112	80-120			
Ethylbenzene	0.0458	0.00100	"	0.0500		91.6	80-120			
Xylene (p/m)	0.0949	0.00100	"	0.100		94.9	80-120			
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*46.1*		*ug/l*	*40.0*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.2*		*"*	*40.0*		*110*	*80-120*			
Calibration Check (EK61614-CCV1)				Prepared: 11/16/06 Analyzed: 11/20/06						
Benzene	54.7		ug/l	50.0		109	80-120			
Toluene	48.5		"	50.0		97.0	80-120			
Ethylbenzene	42.1		"	50.0		84.2	80-120			
Xylene (p/m)	83.0		"	100		83.0	80-120			
Xylene (o)	43.3		"	50.0		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.4*		*"*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.0*		*"*	*40.0*		*92.5*	*80-120*			
Matrix Spike (EK61614-MS1)	**Source: 6K13007-01**			Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0551	0.00100	mg/L	0.0500		110	80-120			
Toluene	0.0498	0.00100	"	0.0500		99.6	80-120			
Ethylbenzene	0.0401	0.00100	"	0.0500		80.2	80-120			
Xylene (p/m)	0.0844	0.00100	"	0.100		84.4	80-120			
Xylene (o)	0.0442	0.00100	"	0.0500		88.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.1*		*ug/l*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.4*		*"*	*40.0*		*106*	*80-120*			

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 EK61614 - EPA 5030C (GC)										
Matrix Spike Dup (EK61614-MSD1)	**Source: 6K13007-01**			Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0580	0.00100	mg/L	0.0500		116	80-120	5.31	20	
Toluene	0.0550	0.00100	"	0.0500		110	80-120	9.92	20	
Ethylbenzene	0.0421	0.00100	"	0.0500		84.2	80-120	4.87	20	
Xylene (p/m)	0.0909	0.00100	"	0.100		90.9	80-120	7.42	20	
Xylene (o)	0.0455	0.00100	"	0.0500		91.0	80-120	2.90	20	
Surrogate: a,a,a-Trifluorotoluene	*46.3*		*ug/l*	*40.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.0*		*"*	*40.0*		*105*	*80-120*			

Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61507 - General Preparation (WetChem)										
Blank (EK61507-BLK1)				Prepared & Analyzed: 11/15/06						
Sulfate	0.579	0.500	mg/L							B
Chloride	ND	0.500	"							
LCS (EK61507-BS1)				Prepared & Analyzed: 11/15/06						
Sulfate	10.9	0.500	mg/L	10.0		109	80-120			
Chloride	11.1	0.500	"	10.0		111	80-120			
Calibration Check (EK61507-CCV1)				Prepared & Analyzed: 11/15/06						
Sulfate	12.0		mg/L	10.0		120	80-120			
Chloride	10.7		"	10.0		107	80-120			
Duplicate (EK61507-DUP1)	**Source: 6K15004-01**			Prepared & Analyzed: 11/15/06						
Sulfate	79.9	5.00	mg/L		79.8			0.125	20	
Chloride	232	5.00	"		234			0.858	20	
Duplicate (EK61507-DUP2)	**Source: 6K15006-07**			Prepared & Analyzed: 11/15/06						
Sulfate	78.2	5.00	mg/L		78.1			0.128	20	
Chloride	37.9	5.00	"		43.7			14.2	20	
Matrix Spike (EK61507-MS1)	**Source: 6K15004-01**			Prepared & Analyzed: 11/15/06						
Sulfate	175	5.00	mg/L	100	79.8	95.2	80-120			
Chloride	345	5.00	"	100	234	111	80-120			
Matrix Spike (EK61507-MS2)	**Source: 6K15006-07**			Prepared & Analyzed: 11/15/06						
Sulfate	175	5.00	mg/L	100	78.1	96.9	80-120			
Chloride	142	5.00	"	100	43.7	98.3	80-120			

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

Project: Hobbs N-6 Leak
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 EK61605 - General Preparation (WetChem)										
Blank (EK61605-BLK1)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	ND	2.00	mg/L							
Blank (EK61605-BLK2)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EK61605-BS1)				Prepared & Analyzed: 11/17/06						
Bicarbonate Alkalinity	172		mg/L	200		86.0	85-115			
LCS (EK61605-BS2)				Prepared & Analyzed: 11/17/06						
Bicarbonate Alkalinity	172		mg/L	200		86.0	85-115			
Hydroxide Alkalinity	0.00	0.100	"				85-115			
Duplicate (EK61605-DUP1)	**Source: 6K15001-01**			Prepared & Analyzed: 11/17/06						
Total Alkalinity	238	2.00	mg/L		238			0.00	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	"		0.00				20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Duplicate (EK61605-DUP2)	**Source: 6K16005-01**			Prepared & Analyzed: 11/17/06						
Total Alkalinity	296	2.00	mg/L		300			1.34	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	"		300				20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EK61605-SRM1)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	238		mg/L	250		95.2	90-110			
Reference (EK61605-SRM2)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	238		mg/L	250		95.2	90-110			

Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61611 - Filtration Preparation										
Blank (EK61611-BLK1)				Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EK61611-DUP1)		Source: 6K15001-01		Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	14000	10.0	mg/L		13200			5.88	5	QR-03
Duplicate (EK61611-DUP2)		Source: 6K15005-03		Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	586	10.0	mg/L		622			5.96	5	QR-03
Batch EK61709 - General Preparation (WetChem)										
Blank (EK61709-BLK1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	ND	0.500	mg/L							
LCS (EK61709-BS1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	8.22	0.500	mg/L	10.0		82.2	80-120			
LCS Dup (EK61709-BSD1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	8.25	0.500	mg/L	10.0		82.5	80-120	0.364	20	
Calibration Check (EK61709-CCV1)				Prepared & Analyzed: 11/17/06						
Total Organic Carbon	10.1		mg/L	10.0		101	80-120			
Duplicate (EK61709-DUP1)		Source: 6K09002-01		Prepared & Analyzed: 11/17/06						
Total Organic Carbon	15.0	0.500	mg/L		14.6			2.70	20	

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61702 - EPA 3005A										
Blank (EK61702-BLK1)				Prepared & Analyzed: 11/17/06						
Iron	ND	0.0170	mg/L							
LCS (EK61702-BS1)				Prepared & Analyzed: 11/17/06						
Iron	0.209	0.0170	mg/L	0.200		104	85-115			
LCS Dup (EK61702-BSD1)				Prepared & Analyzed: 11/17/06						
Iron	0.214	0.0170	mg/L	0.200		107	85-115	2.36	20	
Calibration Check (EK61702-CCV1)				Prepared & Analyzed: 11/17/06						
Iron	0.965		mg/L	1.00		96.5	90-110			
Matrix Spike (EK61702-MS1)		**Source: 6K15006-01**		Prepared & Analyzed: 11/17/06						
Iron	0.195	0.0170	mg/L	0.200	ND	97.5	75-125			
Matrix Spike Dup (EK61702-MSD1)		**Source: 6K15006-01**		Prepared & Analyzed: 11/17/06						
Iron	0.199	0.0170	mg/L	0.200	ND	99.5	75-125	2.03	20	
Batch EK61703 - 6010B/No Digestion										
Blank (EK61703-BLK1)				Prepared & Analyzed: 11/17/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EK61703-CCV1)				Prepared & Analyzed: 11/17/06						
Calcium	2.17		mg/L	2.00		108	85-115			
Magnesium	2.21		"	2.00		110	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.88		"	2.00		94.0	85-115			

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Rice Operating Co.	Project: Hobbs N-6 Leak	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 EK61703 - 6010B/No Digestion										
Duplicate (EK61703-DUP1)	**Source: 6K15001-01**		Prepared & Analyzed: 11/17/06							
Calcium	1300	40.5	mg/L		1340			3.03	20	
Magnesium	461	3.60	"		461			0.00	20	
Potassium	55.7	0.600	"		53.2			4.59	20	
Sodium	2890	21.5	"		3100			7.01	20	

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Rice Operating Co.	Project: Hobbs N-6 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Dissolved 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 EK61701 - EPA 3005A										
Blank (EK61701-BLK1)				Prepared & Analyzed: 11/17/06						
Iron	ND	0.0170	mg/L							
LCS (EK61701-BS1)				Prepared & Analyzed: 11/17/06						
Iron	0.210	0.0170	mg/L	0.200		105	85-115			
LCS Dup (EK61701-BSD1)				Prepared & Analyzed: 11/17/06						
Iron	0.209	0.0170	mg/L	0.200		104	85-115	0.477	20	
Calibration Check (EK61701-CCV1)				Prepared & Analyzed: 11/17/06						
Iron	1.00		mg/L	1.00		100	90-110			
Matrix Spike (EK61701-MS1)	**Source: 6K15006-01**			Prepared & Analyzed: 11/17/06						
Iron	0.182	0.0170	mg/L	0.200	ND	91.0	75-125			
Matrix Spike Dup (EK61701-MSD1)	**Source: 6K15006-01**			Prepared & Analyzed: 11/17/06						
Iron	0.184	0.0170	mg/L	0.200	ND	92.0	75-125	1.09	20	

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: 12/1/2006

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Peggy Allen, QA Officer
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LaTasha Cornish, Chemist
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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
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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: Hobbs N-6 Leak

Project #:

Project Loc: T19S R38E Sec 5 & 6 E/H ~ Lea County New Mexico

PO #:

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

(lab use only)
ORDER #: 6K15006

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3 (1) 250 ml HDPE	HCl (6) 40 ml glass vials	H2SO4	NaOH	Na2S2O3	None (1) 1 Liter HDPE	None (1) 250 ml HDPE	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	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	Total Organic Carbon	Total Dissolved Solids	Total Iron	Dissolved Iron (Lab Filtered)	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #2			11/14/2006	16:45		8	X	1	5				1	1	GW						X	X					X		X	X	X	X		X
02	Monitor Well #3			11/14/2006	19:05		8	X	1	5				1	1	GW						X	X					X		X	X	X	X		X
03	Monitor Well #4			11/14/2006	14:50		8	X	1	5				1	1	GW						X	X					X		X	X	X	X		X
04	Monitor Well #5			11/14/2006	12:40		8	X	1	5				1	1	GW						X	X					X		X	X	X	X		X
05	Monitor Well #6			11/14/2006	15:40		8	X	1	5				1	1	GW						X	X					X		X	X	X	X		X
06	Monitor Well #7			11/14/2006	13:35		8	X	1	5				1	1	GW						X	X					X		X	X	X	X		X
07	IWW			11/14/2006	11:20		8	X	1	5				1	1	GW						X	X					X		X	X	X	X		X

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

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	11/14/06	20:00	James Johnson	11/14/06	2021
James Johnson	11/15/06	8:10			
			Received by ELOT:	11/15/06	8:10

Laboratory Comments:

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

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 0.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ient: Rice Op.

ate/ Time: 11/15/06 8:10

ab ID #: 1cK15006

tials: CK

Sample Receipt Checklist

				Client Initials
Temperature of container/ cooler?	Yes	No	0.5 °C	
Shipping container in good condition?	~~Yes~~	No		
Custody Seals intact on shipping container/ cooler?	~~Yes~~	No	Not Present	
Custody Seals intact on sample bottles/ container?	~~Yes~~	No	Not Present	
Chain of Custody present?	~~Yes~~	No		
Sample instructions complete of Chain of Custody?	~~Yes~~	No		
Chain of Custody signed when relinquished/ received?	~~Yes~~	No		
Chain of Custody agrees with sample label(s)?	~~Yes~~	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	~~Yes~~	No	Not Applicable	
0 Sample matrix/ properties agree with Chain of Custody?	~~Yes~~	No		
1 Containers supplied by ELOT?	~~Yes~~	No		
2 Samples in proper container/ bottle?	~~Yes~~	No	See Below	
3 Samples properly preserved?	~~Yes~~	No	See Below	
4 Sample bottles intact?	~~Yes~~	No		
5 Preservations documented on Chain of Custody?	~~Yes~~	No		
6 Containers documented on Chain of Custody?	~~Yes~~	No		
7 Sufficient sample amount for indicated test(s)?	~~Yes~~	No	See Below	
8 All samples received within sufficient hold time?	~~Yes~~	No	See Below	
9 Subcontract of sample(s)?	Yes	No	Not Applicable	
0 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

ntact: _____ Contacted by: _____ Date/ Time: _____

garding: _____

_____

rective Action Taken:

_____

_____

_____

ck 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