

AP - 64

**ANNUAL GW MONITORING
REPORT**

**DATE:
2005**

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

AP-64
Annual GW Mon. Report
2005

pCERTIFIED MAIL

RETURN RECEIPT NO. 7005 1820 0001 6804 7746

February 10, 2006

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

2006 FEB 13 PM 1:04

**RE: 2005 MONITOR WELL REPORT/SAMPLING SUMMARY
F-29 SWD, HOBBS SWD SYSTEM
UNIT 'F', SEC. 29, T18S, R38E
NMOCD CASE #1R0218**

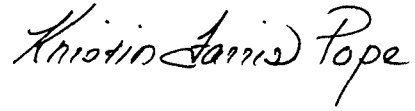
Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2005 Monitor Well Report for the F-29 Salt Water Disposal Facility located on the West County Road Bypass in Hobbs. There are 3 monitor wells at this site that are sampled quarterly pursuant to NMOCD guidelines. These monitoring wells were installed during the removal of redwood tanks in 1999.

In 2005, Basin Environmental Service Technologies and Arc Environmental Services (Arc) of Lovington sampled the wells. In 2006, Arc will continue to sample the wells and Environmental Lab of Texas of Odessa, Texas will continue to analyze the water samples. Evaluation and investigation of the groundwater at this site has been conducted by R.T. Hicks Consultants of Albuquerque and is ongoing.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

RICE OPERATING COMAPANY

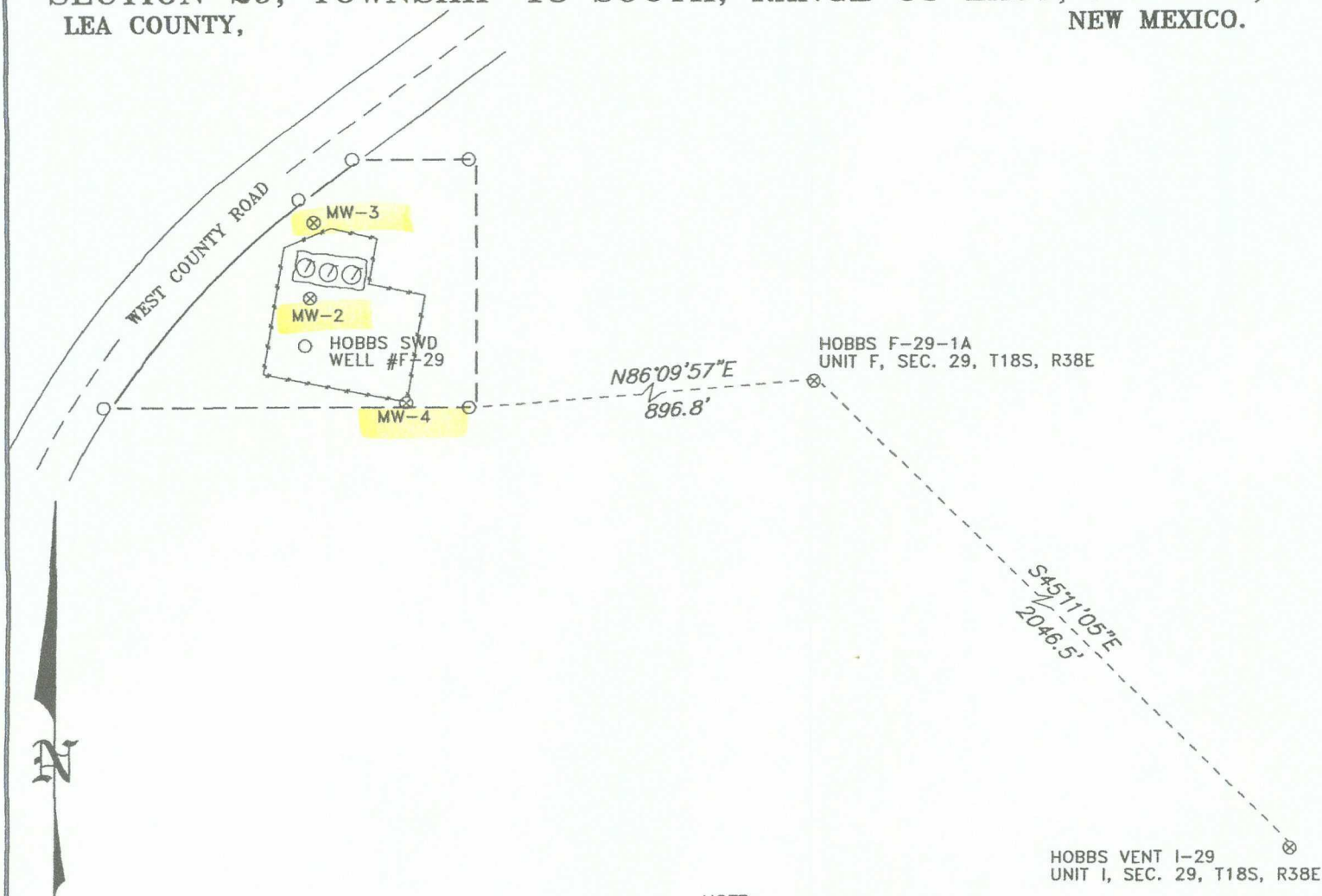
A handwritten signature in black ink that reads "Kristin Farris Pope". The script is cursive and fluid, with the first name "Kristin" and last name "Pope" being more prominent than the middle name "Farris".

Kristin Farris Pope
Project Scientist

enclosures: Summary tables & graphs
 Analytical results
 Survey map

cc: LBG, CDH, R. Escobedo, file, Rob Roy Industries, Hicks, D. Sanchez (OCD)

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

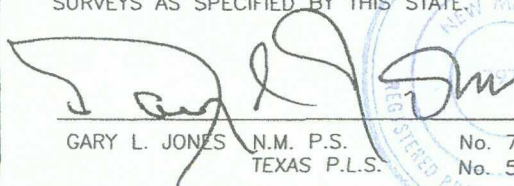


NOTE:
ELEVATIONS ARE ON BLACK MARK
ON NORTH SIDE OF PVC CASING.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

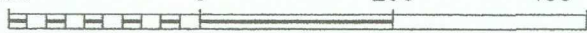
WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEVATION
MW-2	627819.025	898021.191	N 32°43'14.0"	W 103°10'24.9"	3645.71'
MW-3	627908.779	898025.082	N 32°43'14.9"	W 103°10'24.8"	3645.76'
MW-4	627693.822	898134.408	N 32°43'12.7"	W 103°10'23.6"	3645.76'
HOBBS F-29-1A MARK ON NORTH SIDE OF NORTH 2" PVC	627753.789	899029.184	N 32°43'13.2"	W 103°10'13.1"	3648.89' 3645.5'-GRND
HOBBS F-29-1A MARK ON NORTH SIDE OF SOUTH 2" PVC	627753.579	899029.160	N 32°43'13.2"	W 103°10'13.1"	3648.76' 3645.5'-GRND
HOBBS VENT I-29 MARK ON NORTH SIDE OF 2" PVC	626311.386	900480.915	N 32°42'58.8"	W 103°09'56.3"	3650.65' 3647.6'-GRND

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED
FROM FIELD NOTES OF AN ACTUAL SURVEY AND
MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND
SURVEYS AS SPECIFIED BY THIS STATE.


GARY L. JONES N.M. P.S. No. 7977
TEXAS P.L.S. No. 5074

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: RICE Drawn By: K. GOAD
Date: 02-11-2005 Disk: KJG CD#4 - RICEB.DWG

200 0 200 400 FEET


RICE OPERATING COMPANY

REF: MONITOR WELLS

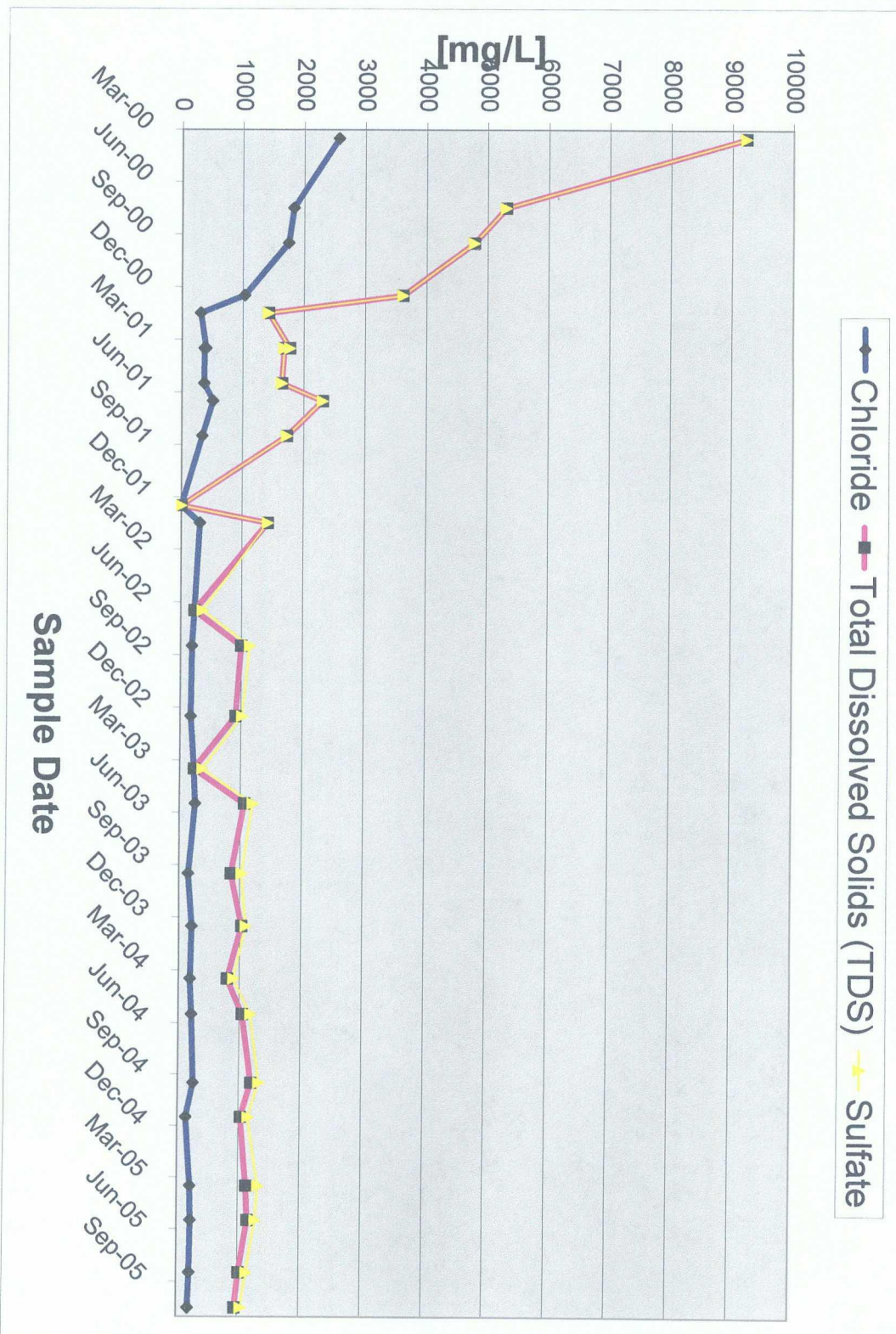
MONITOR WELLS LOCATED IN

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: VARIES Sheet 1 of 1 Sheets

All concentrations are in mg/L													
(ft)		(gal)											
MW #	DEPTH TO WATER	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	Cl ⁻	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	SULFATE	COMMENTS
2	XXX	XXX	XXX	XXX	3/21/00	2564	6660	XXX	XXX	XXX	XXX	XXX	
2	49.00	XXX	XXX	XXX	7/10/00	1829	3470	<0.002	<0.002	<0.002	<0.006	XXX	
2	49.26	XXX	XXX	XXX	9/27/00	1748	3032	<0.002	<0.002	<0.002	<0.006	XXX	
2	49.61	XXX	XXX	XXX	12/12/00	1027	2586	<0.002	<0.002	<0.002	<0.006	XXX	
2	XXX	XXX	XXX	XXX	1/4/01	308	1114	XXX	XXX	XXX	XXX	XXX	
2	XXX	XXX	XXX	XXX	3/16/01	396	1373	XXX	XXX	XXX	XXX	XXX	
2	XXX	XXX	XXX	XXX	3/23/01	368	1312	XXX	XXX	XXX	XXX	XXX	
2	XXX	XXX	XXX	XXX	5/7/01	365	1272	XXX	XXX	XXX	XXX	XXX	
2	XXX	XXX	XXX	XXX	6/8/01	513	1796	XXX	XXX	XXX	XXX	XXX	
2	XXX	XXX	XXX	XXX	8/14/01	340	1385	XXX	XXX	XXX	XXX	XXX	
2	51.13	59.41	XXX	XXX	12/29/01	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
2	51.16	59.15	XXX	XXX	1/4/02	308	1114	XXX	XXX	XXX	XXX	XXX	
2	XXX	XXX	XXX	XXX	6/6/02	221	XXX	<0.001	<0.001	<0.001	<0.001	135	
2	52.07	59.93	XXX	20.50	8/14/02	186	806	<0.001	<0.001	<0.001	<0.001	144	
2	52.58	59.82	4.71	14.12	12/11/02	172	738	<0.002	<0.002	<0.002	<0.006	106	
2	52.94	59.76	4.43	13.29	3/21/03	230	XXX	<0.001	<0.001	<0.001	<0.001	140	
2	53.15	59.74	4.28	12.85	5/28/03	257	804	<0.001	<0.001	<0.001	<0.001	138	
2	53.71	69.77	10.48	31.46	9/22/03	151	700	<0.001	<0.001	<0.001	<0.001	173	
2	54.10	59.86	3.76	11.28	12/18/03	208	815	<0.002	0.003	<0.002	0.014	71	
2	54.33	59.89	3.63	10.89	3/15/04	186	607	<0.001	<0.001	<0.001	<0.001	103	
2	XXX	XXX	XXX	XXX	5/27/04	213	830	<0.001	<0.001	<0.001	<0.001	138	
2	54.60	59.80	3.38	10.14	9/8/04	248	946	0.00464	0.000412	0.000979	0.001199	129	no odor; clear
2	54.20	59.80	3.640	10.90	11/23/04	139	888	0.00448	<0.001	<0.001	0.000714	125	no odor; clear
2	53.39	59.80	4.170	12.50	3/22/05	214	914	<0.001	<0.001	<0.001	<0.001	196	no odor; clear
2	53.35	59.80	4.190	12.60	5/18/05	223	930	<0.001	<0.001	<0.001	<0.001	131	
2	53.55	59.80	4.060	12.20	8/8/05	210	799	<0.001	<0.001	<0.001	<0.001	130	
2	53.81	59.80	5.990	12.00	10/31/05	185	762	<0.001	<0.001	<0.001	<0.001	100	no odor; clear

Hobbs F-29 Monitor Well #2

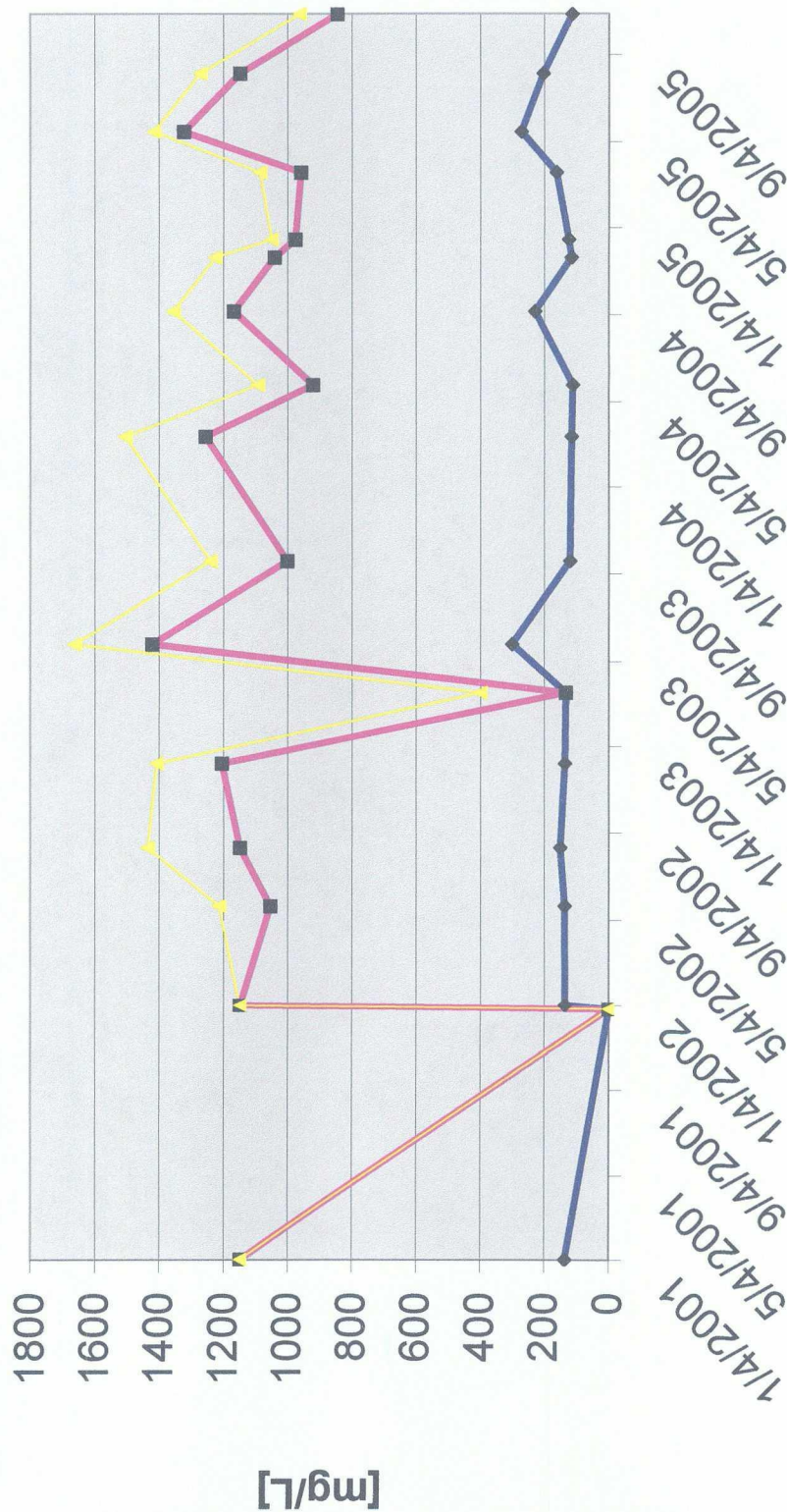


(ft) (gal) All concentrations are in mg/L

MW #	DEPTH TO WATER	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	Cl ⁻	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	SULFATE	COMMENTS
3	XXX	XXX	XXX	XXX	01/04/01	136	1013	XXX	XXX	XXX	XXX	XXX	
3	51.20	60.95	XXX	XXX	12/29/01	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
3	51.24	53.50	XXX	XXX	01/04/02	136	1013	XXX	XXX	XXX	XXX	XXX	
3	XXX	XXX	XXX	XXX	05/24/02	137	917	<0.001	<0.001	<0.001	<0.001	158	
3	52.12	66.33	XXX	9.00	08/14/02	151	998	<0.001	<0.001	<0.001	<0.001	284	
3	52.64	64.65	1.92	5.76	12/11/02	136	1069	0.005	<0.002	<0.002	<0.006	201	
3	52.98	64.47	1.83	5.51	03/21/03	133	XXX	<0.001	<0.001	<0.001	<0.001	266	
3	53.70	62.58	1.42	4.26	05/28/03	301	1120	<0.001	<0.001	<0.001	<0.001	240	
3	53.74	63.15	1.53	4.60	09/22/03	120	881	<0.001	<0.001	<0.001	<0.001	238	
3	54.59	62.43	1.27	3.83	12/18/04	124	852	<0.002	<0.002	<0.002	<0.006	73	
3	54.35	63.08	1.420	4.26	03/15/04	115	1140	<0.001	<0.001	<0.001	<0.001	248	
3	XXX	XXX	XXX	XXX	05/27/04	111	810	<0.001	<0.001	<0.001	<0.001	171	
3	54.60	62.70	1.30	3.89	09/08/04	230	937	<0.001	<0.001	<0.001	<0.001	186	no odor; clear, retrieved bailer
3	54.40	62.70	1.330	4.00	11/23/04	115	925	<0.001	<0.001	<0.001	<0.001	183	no odor; clear
3	53.40	62.70	1.490	4.50	03/22/05	162	796	<0.001	<0.001	<0.001	<0.001	126	no odor; clear
3	53.38	62.70	1.290	4.50	05/18/05	272	1050	<0.001	<0.001	<0.001	<0.001	92	
3	53.90	62.70	1.460	4.40	08/08/05	203	945	<0.001	<0.001	<0.001	<0.001	122	
3	53.57	62.70	1.500	5.00	10/31/05	113	732	<0.001	<0.001	<0.001	<0.001	116	no odor; clear

Hobbs F-29 Monitor Well #3

—◆— [Total Dissolved Solids]
 —■— [Chloride]
 —▲— [Sulfate]



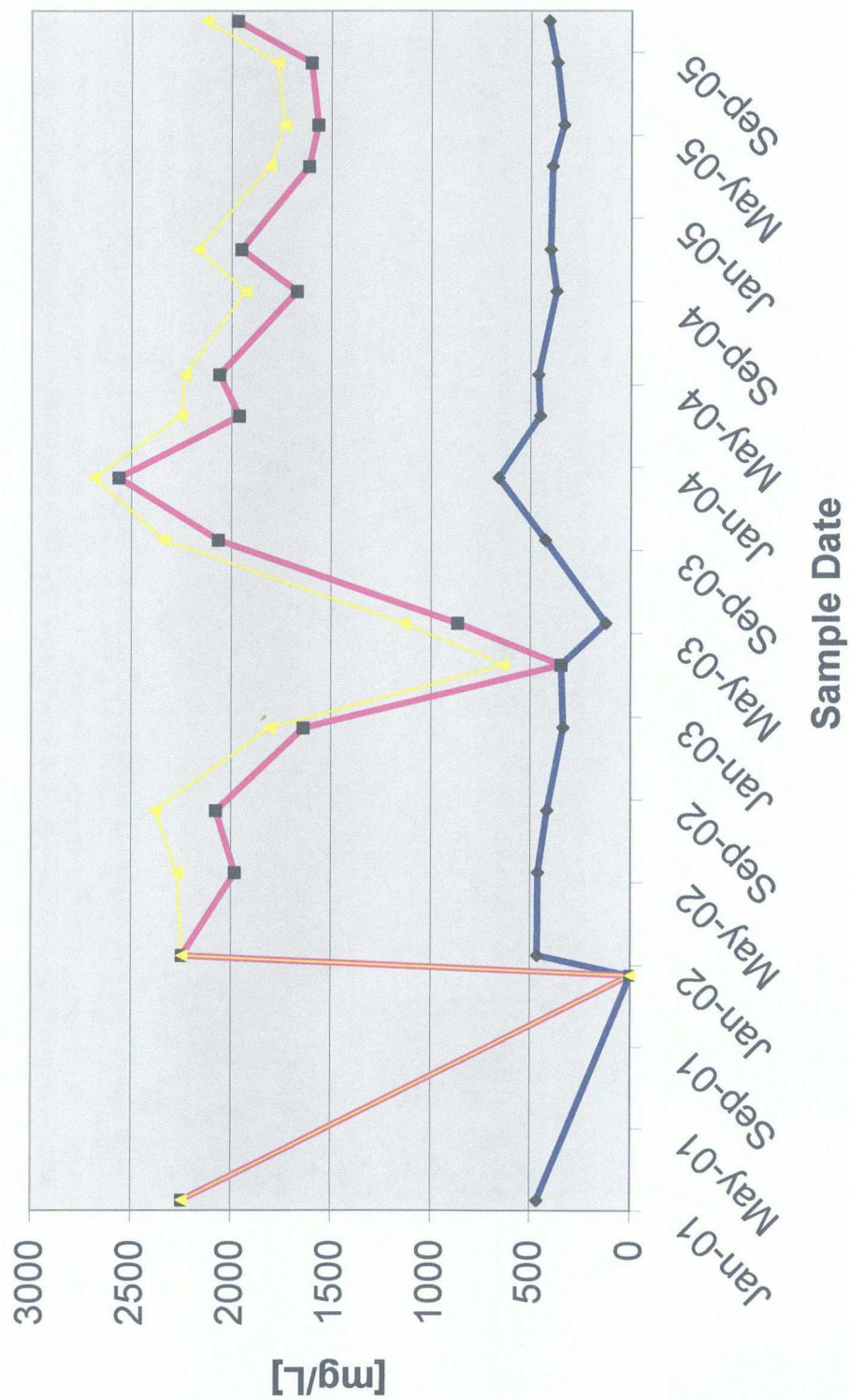
Sample Date

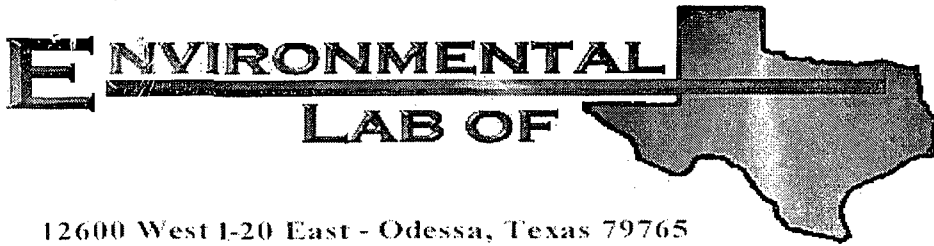
(ft) (gal) All concentrations are in mg/L

MW #	DEPTH TO WATER	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	Cl ⁻	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	SULFATE	COMMENTS
4	XXX	XXX	XXX	XXX	01/04/01	464	1781	XXX	XXX	XXX	XXX	XXX	
4	51.51	57.91	XXX	XXX	12/29/01	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
4	51.56	53.74	XXX	XXX	01/04/02	464	1781	XXX	XXX	XXX	XXX	XXX	
4	XXX	XXX	XXX	XXX	05/24/02	461	1520	<0.001	<0.001	<0.001	<0.001	286	
4	52.50	65.30	XXX	8.50	08/14/02	416	1660	<0.001	<0.001	<0.001	<0.001	303	
4	53.00	63.59	1.69	5.08	12/11/02	336	1302	0.003	<0.002	<0.002	<0.006	170	
4	53.41	63.31	1.58	4.75	03/21/03	346	XXX	<0.001	<0.001	<0.001	<0.001	289	
4	53.25	63.78	1.68	5.50	05/28/03	124	742	<0.001	<0.001	<0.001	<0.001	269	
4	54.21	62.46	1.34	4.03	09/22/03	425	1640	<0.001	<0.001	<0.001	<0.001	271	
4	54.12	63.11	1.46	4.39	12/18/03	660	1902	<0.002	<0.002	<0.002	<0.006	123	
4	54.84	62.55	1.250	3.77	03/15/04	452	1510	<0.001	<0.001	<0.001	<0.001	290	
4	XXX	XXX	XXX	XXX	05/27/04	461	1600	<0.001	<0.001	<0.001	<0.001	174	
4	54.80	62.30	1.20	3.60	09/08/04	372	1300	<0.001	<0.001	<0.001	<0.001	260	clear; no odor; no lock (replaced)
4	54.40	62.30	1.260	3.80	11/23/04	401	1550	<0.001	<0.001	<0.001	<0.001	217	clear; no odor
4	53.76	62.30	1.370	4.10	03/22/05	392	1220	<0.001	<0.001	<0.001	<0.001	196	clear; no odor
4	53.78	62.30	1.360	4.10	05/18/05	336	1230	<0.001	<0.001	<0.001	<0.001	169	
4	53.98	62.30	1.330	4.00	08/08/05	370	1230	<0.001	<0.001	<0.001	<0.001	171	
4	53.82	62.30	1.400	5.00	10/31/05	411	1560	<0.001	J[0.000774]	J[0.000385	J[0.000842]	156	clear; no odor; slow to recover from bailing

Hobbs F-29 Monitor Well #4

—◆— [Total Dissolved Solids]
 —■— [Chloride]
 —▲— [Sulfate]





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: F-29 SWD
Project Number: None Given
Location: Hobbs

Lab Order Number: 5C23005

Report Date: 04/06/05

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	5C23005-01	Water	03/22/05 10:45	03/23/05 08:00
MW-3	5C23005-02	Water	03/22/05 11:00	03/23/05 08:00
MW-4	5C23005-03	Water	03/22/05 12:00	03/23/05 08:00

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5C23005-01) Water									
Benzene	ND	0.00100	mg/L	1	EC52804	03/24/05	03/24/05	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		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	

MW-3 (5C23005-02) Water

Benzene	ND	0.00100	mg/L	1	EC52804	03/24/05	03/24/05	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		83.0 %	80-120		"	"	"	"	

MW-4 (5C23005-03) Water

Benzene	ND	0.00100	mg/L	1	EC52804	03/24/05	03/24/05	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		88.5 %	80-120		"	"	"	"	

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5C23005-01) Water									
Total Alkalinity	222	2.00	mg/L	1	EC52908	03/23/05	03/23/05	EPA 310.2M	
Chloride	214	5.00	"	10	EC52513	03/24/05	03/24/05	EPA 300.0	
Total Dissolved Solids	914	5.00	"	1	EC52507	03/24/05	03/25/05	EPA 160.1	
Sulfate	121	5.00	"	10	EC52513	03/24/05	03/24/05	EPA 300.0	
MW-3 (5C23005-02) Water									
Total Alkalinity	298	2.00	mg/L	1	EC52908	03/23/05	03/23/05	EPA 310.2M	
Chloride	162	5.00	"	10	EC52513	03/24/05	03/24/05	EPA 300.0	
Total Dissolved Solids	796	5.00	"	1	EC52507	03/24/05	03/25/05	EPA 160.1	
Sulfate	126	5.00	"	10	EC52513	03/24/05	03/24/05	EPA 300.0	
MW-4 (5C23005-03) Water									
Total Alkalinity	196	2.00	mg/L	1	EC52908	03/23/05	03/23/05	EPA 310.2M	
Chloride	392	5.00	"	10	EC52513	03/24/05	03/24/05	EPA 300.0	
Total Dissolved Solids	1220	5.00	"	1	EC52507	03/24/05	03/25/05	EPA 160.1	
Sulfate	196	5.00	"	10	EC52513	03/24/05	03/24/05	EPA 300.0	

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5C23005-01) Water									
Calcium	118	1.00	mg/L	100	EC53102	03/29/05	03/30/05	EPA 6010B	
Magnesium	28.7	0.0100	"	10	"	"	"	"	
Sodium	141	1.00	"	100	"	"	"	"	
Potassium	8.82	0.100	"	2	EC53109	03/29/05	03/31/05	"	
MW-3 (5C23005-02) Water									
Calcium	75.6	0.100	mg/L	10	EC53102	03/29/05	03/30/05	EPA 6010B	
Magnesium	29.7	0.0100	"	"	"	"	"	"	
Sodium	113	1.00	"	100	"	"	"	"	
Potassium	9.05	0.100	"	2	EC53109	03/29/05	03/31/05	"	
MW-4 (5C23005-03) Water									
Calcium	176	1.00	mg/L	100	EC53102	03/29/05	03/30/05	EPA 6010B	
Magnesium	40.6	0.0100	"	10	"	"	"	"	
Sodium	139	1.00	"	100	"	"	"	"	
Potassium	8.57	0.100	"	2	EC53109	03/29/05	03/31/05	"	

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC52804 - EPA 5030C (GC)

Blank (EC52804-BLK1)

Prepared & Analyzed: 03/24/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	19.8		ug/l	20.0		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	17.3		"	20.0		86.5	80-120			

LCS (EC52804-BS1)

Prepared & Analyzed: 03/24/05

Benzene	100		ug/l	100		100	80-120			
Toluene	98.6		"	100		98.6	80-120			
Ethylbenzene	98.5		"	100		98.5	80-120			
Xylene (p/m)	201		"	200		100	80-120			
Xylene (o)	94.1		"	100		94.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2		"	20.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	16.5		"	20.0		82.5	80-120			

LCS Dup (EC52804-BSD1)

Prepared & Analyzed: 03/24/05

Benzene	101		ug/l	100		101	80-120	0.995	20	
Toluene	99.0		"	100		99.0	80-120	0.405	20	
Ethylbenzene	97.8		"	100		97.8	80-120	0.713	20	
Xylene (p/m)	199		"	200		99.5	80-120	0.501	20	
Xylene (o)	99.5		"	100		99.5	80-120	5.58	20	
Surrogate: a,a,a-Trifluorotoluene	22.3		"	20.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	16.5		"	20.0		82.5	80-120			

Calibration Check (EC52804-CCV1)

Prepared: 03/24/05 Analyzed: 03/25/05

Benzene	98.8		ug/l	100		98.8	80-120			
Toluene	95.7		"	100		95.7	80-120			
Ethylbenzene	97.6		"	100		97.6	80-120			
Xylene (p/m)	192		"	200		96.0	80-120			
Xylene (o)	103		"	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.0		"	20.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	18.4		"	20.0		92.0	80-120			

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC52804 - EPA 5030C (GC)

Matrix Spike (EC52804-MS1)

Source: 5C23005-01

Prepared: 03/24/05

Analyzed: 03/28/05

Benzene	95.1		ug/l	100	ND	95.1	80-120			
Toluene	97.2		"	100	ND	97.2	80-120			
Ethylbenzene	89.2		"	100	ND	89.2	80-120			
Xylene (p/m)	183		"	200	ND	91.5	80-120			
Xylene (o)	93.3		"	100	ND	93.3	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	22.0		"	20.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	20.6		"	20.0		103	80-120			

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC52507 - General Preparation (WetChem)

Blank (EC52507-BLK1)

Prepared: 03/24/05 Analyzed: 03/25/05

Total Dissolved Solids	ND	5.00	mg/L
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Duplicate (EC52507-DUP1)

Source: 5C23001-01

Prepared: 03/24/05 Analyzed: 03/25/05

Total Dissolved Solids	1140	5.00	mg/L	1140	0.00	20
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Batch EC52513 - General Preparation (WetChem)

Blank (EC52513-BLK1)

Prepared & Analyzed: 03/24/05

Sulfate	ND	0.500	mg/L
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Chloride	ND	0.500	"
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Blank (EC52513-BLK2)

Prepared & Analyzed: 03/24/05

Chloride	ND	0.500	mg/L
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Sulfate	ND	0.500	"
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LCS (EC52513-BS1)

Prepared & Analyzed: 03/24/05

Chloride	10.4	mg/L	10.0	104	80-120
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Sulfate	9.53	"	10.0	95.3	80-120
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LCS (EC52513-BS2)

Prepared & Analyzed: 03/24/05

Chloride	10.5	mg/L	10.0	105	80-120
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Sulfate	9.80	"	10.0	98.0	80-120
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Calibration Check (EC52513-CCV1)

Prepared & Analyzed: 03/24/05

Chloride	10.6	mg/L	10.0	106	80-120
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Sulfate	9.93	"	10.0	99.3	80-120
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC52513 - General Preparation (WetChem)

Calibration Check (EC52513-CCV2)

Prepared & Analyzed: 03/24/05

Sulfate	9.80		mg/L	10.0		98.0	80-120			
Chloride	10.6		"	10.0		106	80-120			

Duplicate (EC52513-DUP1)

Source: 5C23001-01

Prepared & Analyzed: 03/24/05

Chloride	216	5.00	mg/L		215			0.464	20	
Sulfate	216	5.00	"		215			0.464	20	

Duplicate (EC52513-DUP2)

Source: 5C23018-07

Prepared & Analyzed: 03/24/05

Chloride	1540	12.5	mg/L		1530			0.651	20	
Sulfate	163	12.5	"		163			0.00	20	

Batch EC52908 - General Preparation (WetChem)

Blank (EC52908-BLK1)

Prepared & Analyzed: 03/23/05

Total Alkalinity	ND	2.00	mg/L							
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Calibration Check (EC52908-CCV1)

Prepared & Analyzed: 03/23/05

Carbonate Alkalinity	0.0500		mg/L	0.0500		100	80-120			
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Duplicate (EC52908-DUP1)

Source: 5C22002-01

Prepared & Analyzed: 03/23/05

Total Alkalinity	221	2.00	mg/L		220			0.454	20	
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC53102 - 6010B/No Digestion

Blank (EC53102-BLK1)

Prepared: 03/29/05 Analyzed: 03/30/05

Calcium	ND	0.0100	mg/L
Magnesium	ND	0.00100	"
Sodium	ND	0.0100	"

Calibration Check (EC53102-CCV1)

Prepared: 03/29/05 Analyzed: 03/30/05

Calcium	2.25		mg/L	2.00	112	85-115
Magnesium	1.93		"	2.00	96.5	85-115
Sodium	2.18		"	2.00	109	85-115

Duplicate (EC53102-DUP1)

Source: 5C23001-01

Prepared: 03/29/05 Analyzed: 03/30/05

Calcium	47.7	0.100	mg/L	51.6	7.85	20
Magnesium	62.7	0.0200	"	59.3	5.57	20
Sodium	247	1.00	"	252	2.00	20

Batch EC53109 - 6010B/No Digestion

Blank (EC53109-BLK1)

Prepared: 03/29/05 Analyzed: 03/31/05

Potassium	ND	0.0500	mg/L
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Calibration Check (EC53109-CCV1)

Prepared: 03/29/05 Analyzed: 03/31/05

Potassium	2.02		mg/L	2.00	101	85-115
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Duplicate (EC53109-DUP1)

Source: 5C23001-01

Prepared: 03/29/05 Analyzed: 03/31/05

Potassium	10.1	0.500	mg/L	10.7	5.77	20
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
04/06/05 10:46

Notes and Definitions

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

Report Approved By: Raland K Tuttle Date: 4-06-05

Raland K. Tuttle, Lab Manager

Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope

Company Name RICE Operating

Company Address: 122 W. Taylor St.

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature:

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating

Date/Time: 3/23/05 10:15

Order #: 5023005

Initials: CL

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.5	C
Shipping container/cooler in good condition?	☒	No		
Custody Seals intact on shipping container/cooler?	☒	No	Not present	
Custody Seals intact on sample bottles?	☒	No	Not present	
Chain of custody present?	☒	No		
Sample Instructions complete on Chain of Custody?	☒	No		
Chain of Custody signed when relinquished and received?	☒	No		
Chain of custody agrees with sample label(s)	☒	No		
Container labels legible and intact?	☒	No		
Sample Matrix and properties same as on chain of custody?	☒	No		
Samples in proper container/bottle?	☒	No		
Samples properly preserved?	☒	No		
Sample bottles intact?	☒	No		
Preservations documented on Chain of Custody?	☒	No		
Containers documented on Chain of Custody?	☒	No		
Sufficient sample amount for indicated test?	☒	No		
All samples received within sufficient hold time?	☒	No		
VOC samples have zero headspace?	☒	No	Not Applicable	

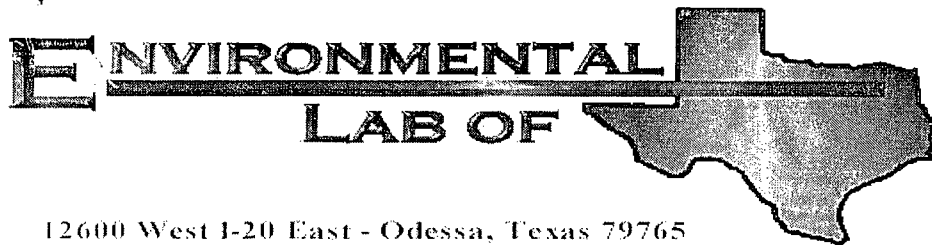
Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:



Analytical Report

Prepared for:

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

Project: F-29 SWD
Project Number: None Given
Location: Hobbs

Lab Order Number: 5E19001

Report Date: 06/02/05

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	5E19001-01	Water	05/18/05 12:18	05/19/05 08:00
MW-3	5E19001-02	Water	05/18/05 09:30	05/19/05 08:00
MW-4	5E19001-03	Water	05/18/05 10:42	05/19/05 08:00

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5E19001-01) Water									
Benzene	ND	0.00100	mg/L	1	EE52313	05/23/05	05/23/05	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		108 %	80-120		"	"	"	"	
MW-3 (5E19001-02) Water									
Benzene	ND	0.00100	mg/L	1	EE52313	05/23/05	05/23/05	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		112 %	80-120		"	"	"	"	
MW-4 (5E19001-03) Water									
Benzene	ND	0.00100	mg/L	1	EE52313	05/23/05	05/23/05	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		115 %	80-120		"	"	"	"	

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5E19001-01) Water									
Total Alkalinity	214	2.00	mg/L	1	EE52509	05/24/05	05/24/05	EPA 310.2M	
Chloride	223	5.00	"	10	EE52003	05/19/05	05/19/05	EPA 300.0	
Total Dissolved Solids	930	5.00	"	1	EE52506	05/19/05	05/19/05	EPA 160.1	
Sulfate	131	5.00	"	10	EE52003	05/19/05	05/19/05	EPA 300.0	
MW-3 (5E19001-02) Water									
Total Alkalinity	300	2.00	mg/L	1	EE52509	05/24/05	05/24/05	EPA 310.2M	
Chloride	272	5.00	"	10	EE52003	05/19/05	05/19/05	EPA 300.0	
Total Dissolved Solids	1050	5.00	"	1	EE52506	05/19/05	05/19/05	EPA 160.1	
Sulfate	92.0	5.00	"	10	EE52003	05/19/05	05/19/05	EPA 300.0	
MW-4 (5E19001-03) Water									
Total Alkalinity	188	2.00	mg/L	1	EE52509	05/24/05	05/24/05	EPA 310.2M	
Chloride	336	5.00	"	10	EE52003	05/19/05	05/19/05	EPA 300.0	
Total Dissolved Solids	1230	5.00	"	1	EE52506	05/19/05	05/19/05	EPA 160.1	
Sulfate	169	5.00	"	10	EE52003	05/19/05	05/19/05	EPA 300.0	

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (SE19001-01) Water									
Calcium	118	0.500	mg/L	50	EE52518	05/25/05	05/25/05	EPA 6010B	
Magnesium	27.2	0.0100	"	10	"	"	"	"	
Potassium	5.69	0.0500	"	1	"	"	"	"	
Sodium	110	0.100	"	10	"	"	"	"	
MW-3 (SE19001-02) Water									
Calcium	131	0.500	mg/L	50	EE52518	05/25/05	05/25/05	EPA 6010B	
Magnesium	35.5	0.0100	"	10	"	"	"	"	
Potassium	5.94	0.0500	"	1	"	"	"	"	
Sodium	55.9	0.500	"	50	"	"	"	"	
MW-4 (SE19001-03) Water									
Calcium	167	0.500	mg/L	50	EE52518	05/25/05	05/25/05	EPA 6010B	
Magnesium	36.2	0.0100	"	10	"	"	"	"	
Potassium	5.37	0.0500	"	1	"	"	"	"	
Sodium	73.2	0.500	"	50	"	"	"	"	

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

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
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Batch EE52313 - EPA 5030C (GC)

Blank (EE52313-BLK1)

Prepared & Analyzed: 05/23/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	18.3		ug/l	20.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	21.1		"	20.0		106	80-120			

LCS (EE52313-BS1)

Prepared & Analyzed: 05/23/05

Benzene	94.6		ug/l	100		94.6	80-120			
Toluene	99.1		"	100		99.1	80-120			
Ethylbenzene	111		"	100		111	80-120			
Xylene (p/m)	224		"	200		112	80-120			
Xylene (o)	115		"	100		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.3		"	20.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	22.4		"	20.0		112	80-120			

Calibration Check (EE52313-CCV1)

Prepared: 05/23/05 Analyzed: 05/24/05

Benzene	84.6		ug/l	100		84.6	80-120			
Toluene	92.8		"	100		92.8	80-120			
Ethylbenzene	91.1		"	100		91.1	80-120			
Xylene (p/m)	182		"	200		91.0	80-120			
Xylene (o)	87.9		"	100		87.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.3		"	20.0		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.4		"	20.0		97.0	80-120			

Matrix Spike (EE52313-MS1)

Source: 5E23008-05

Prepared: 05/23/05 Analyzed: 05/24/05

Benzene	92.0		ug/l	100	ND	92.0	80-120			
Toluene	91.8		"	100	ND	91.8	80-120			
Ethylbenzene	90.0		"	100	ND	90.0	80-120			
Xylene (p/m)	192		"	200	ND	96.0	80-120			
Xylene (o)	93.5		"	100	ND	93.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.3		"	20.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	22.8		"	20.0		114	80-120			

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

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 EE52313 - EPA 5030C (GC)										
Matrix Spike Dup (EE52313-MSD1)		Source: 5E23008-05		Prepared: 05/23/05		Analyzed: 05/24/05				
Benzene	92.6		ug/l	100	ND	92.6	80-120	0.650	20	
Toluene	93.5		"	100	ND	93.5	80-120	1.83	20	
Ethylbenzene	94.9		"	100	ND	94.9	80-120	5.30	20	
Xylene (p/m)	187		"	200	ND	93.5	80-120	2.64	20	
Xylene (o)	95.2		"	100	ND	95.2	80-120	1.80	20	
Surrogate: a,a,a-Trifluorotoluene	18.0		"	20.0		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	23.0		"	20.0		115	80-120			

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

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
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Batch EE52003 - General Preparation (WetChem)

Blank (EE52003-BLK1) Prepared & Analyzed: 05/19/05

Sulfate	ND	0.500	mg/L						
Chloride	ND	0.500	"						

LCS (EE52003-BS1) Prepared & Analyzed: 05/19/05

Chloride	10.4		mg/L	10.0		104	80-120		
Sulfate	10.5		"	10.0		105	80-120		

Calibration Check (EE52003-CCV1) Prepared & Analyzed: 05/19/05

Sulfate	10.6		mg/L	10.0		106	80-120		
Chloride	10.4		"	10.0		104	80-120		

Duplicate (EE52003-DUP1) Source: 5E19001-01 Prepared & Analyzed: 05/19/05

Sulfate	128	5.00	mg/L		131			2.32	20
Chloride	217	5.00	"		223			2.73	20

Batch EE52506 - Filtration Preparation

Blank (EE52506-BLK1) Prepared & Analyzed: 05/19/05

Total Dissolved Solids	ND	5.00	mg/L						
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Duplicate (EE52506-DUP1) Source: 5E19001-01 Prepared & Analyzed: 05/19/05

Total Dissolved Solids	930	5.00	mg/L		930			0.00	20
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Batch EE52509 - General Preparation (WetChem)

Blank (EE52509-BLK1) Prepared & Analyzed: 05/24/05

Total Alkalinity	ND	2.00	mg/L						
------------------	----	------	------	--	--	--	--	--	--

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

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 EE52509 - General Preparation (WetChem)

Duplicate (EE52509-DUP1) **Source: 5E19001-01** Prepared & Analyzed: 05/24/05

Total Alkalinity	215	2.00	mg/L		214			0.466	20	
------------------	-----	------	------	--	-----	--	--	-------	----	--

Reference (EE52509-SRM1) Prepared & Analyzed: 05/24/05

Bicarbonate Alkalinity	230		mg/L	200		115	80-120			
------------------------	-----	--	------	-----	--	-----	--------	--	--	--

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

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 EE52518 - 6010B/No Digestion

Blank (EE52518-BLK1)

Prepared & Analyzed: 05/25/05

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Blank (EE52518-BLK2)

Prepared & Analyzed: 05/25/05

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EE52518-CCV1)

Prepared & Analyzed: 05/25/05

Calcium	1.86		mg/L	2.00		93.0	85-115			
Magnesium	2.10		"	2.00		105	85-115			
Potassium	1.93		"	2.00		96.5	85-115			
Sodium	2.18		"	2.00		109	85-115			

Duplicate (EE52518-DUP1)

Source: 5E19001-01

Prepared & Analyzed: 05/25/05

Calcium	51.6	0.500	mg/L		118			78.3	20	
Magnesium	26.4	0.0100	"		27.2			2.99	20	
Potassium	5.70	0.0500	"		5.69			0.176	20	
Sodium	109	0.100	"		110			0.913	20	

Duplicate (EE52518-DUP2)

Source: 5E24016-01

Prepared & Analyzed: 05/25/05

Calcium	90.2	0.100	mg/L		89.5			0.779	20	
Magnesium	50.6	0.0100	"		50.5			0.198	20	
Potassium	10.7	0.500	"		11.0			2.76	20	
Sodium	244	0.500	"		248			1.63	20	

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

Project: F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/02/05 16:23

Notes and Definitions

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

Report Approved By: Raland K Tuttle Date: 6-02-05

Raland K. Tuttle, Lab Manager

Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sandra Sanchez, Lab Tech.

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

**12600 West I-20 East
Odessa, Texas 79763**

Fax: 915-563-1713

Kristin Farris Pope

Rice Operations

122 W Taylor St.

bbbs. nm 88240

(505) 393-9174

Fax No: (505) 397-1471

Geo. Moore

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

F-29 S30

Project #:

Febbs

PO#

Fax No: (505) 397-1471

Geo. Moore

[illegible]

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

Client: Rice

Date/Time: 5/19/05 8:00

Order #: 5E19001

Initials: CR

Sample Receipt Checklist

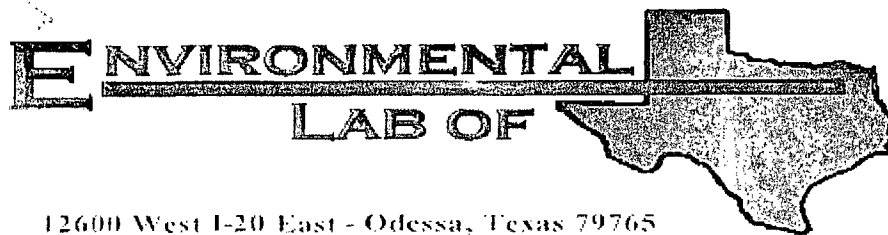
Temperature of container/cooler?	Yes	No	-2.5	C
Shipping container/cooler in good condition?	☒	No		
Custody Seals intact on shipping container/cooler?	☒	No	Not present	
Custody Seals intact on sample bottles?	☒	No	Not present	
Chain of custody present?	☒	No		
Sample Instructions complete on Chain of Custody?	☒	No		
Chain of Custody signed when relinquished and received?	☒	No		
Chain of custody agrees with sample label(s)	☒	No		
Container labels legible and intact?	☒	No		
Sample Matrix and properties same as on chain of custody?	☒	No		
Samples in proper container/bottle?	☒	No		
Samples properly preserved?	☒	No		
Sample bottles intact?	☒	No		
Preservations documented on Chain of Custody?	☒	No		
Containers documented on Chain of Custody?	☒	No		
Sufficient sample amount for indicated test?	☒	No		
All samples received within sufficient hold time?	☒	No		
VOC samples have zero headspace?	☒	No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Hobbs F-29 SWD

Project Number: None Given

Location: Hobbs

Lab Order Number: 5H09007

Report Date: 08/24/05

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #2	5H09007-01	Water	08/08/05 11:00	08/09/05 15:12
Monitor Well #3	5H09007-02	Water	08/08/05 10:45	08/09/05 15:12
Monitor Well #4	5H09007-03	Water	08/08/05 12:24	08/09/05 15:12

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Monitor Well #2 (5H09007-01) Water

Benzene	ND	0.00100	mg/L	1	EH51001	08/10/05	08/10/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		87.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.4 %	80-120		"	"	"	"	

Monitor Well #3 (5H09007-02) Water

Benzene	ND	0.00100	mg/L	1	EH51001	08/10/05	08/10/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		89.7 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	80-120		"	"	"	"	

Monitor Well #4 (5H09007-03) Water

Benzene	ND	0.00100	mg/L	1	EH51001	08/10/05	08/10/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		90.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.4 %	80-120		"	"	"	"	

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

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 (SH09007-01) Water									
Total Alkalinity	218	2.00	mg/L	1	EH51207	08/10/05	08/10/05	EPA 310.2M	
Chloride	210	2.50	"	5	EH51906	08/15/05	08/15/05	EPA 300.0	
Total Dissolved Solids	799	5.00	"	1	EH51002	08/10/05	08/11/05	EPA 160.1	
Sulfate	130	2.50	"	5	EH51906	08/15/05	08/15/05	EPA 300.0	
Monitor Well #3 (SH09007-02) Water									
Total Alkalinity	321	2.00	mg/L	1	EH51207	08/10/05	08/10/05	EPA 310.2M	
Chloride	203	5.00	"	10	EH51906	08/15/05	08/15/05	EPA 300.0	
Total Dissolved Solids	945	5.00	"	1	EH51002	08/10/05	08/11/05	EPA 160.1	
Sulfate	122	5.00	"	10	EH51906	08/15/05	08/15/05	EPA 300.0	
Monitor Well #4 (SH09007-03) Water									
Total Alkalinity	178	2.00	mg/L	1	EH51207	08/10/05	08/10/05	EPA 310.2M	
Chloride	370	5.00	"	10	EH51906	08/15/05	08/15/05	EPA 300.0	
Total Dissolved Solids	1230	5.00	"	1	EH51002	08/10/05	08/11/05	EPA 160.1	
Sulfate	171	5.00	"	10	EH51906	08/15/05	08/15/05	EPA 300.0	

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Monitor Well #2 (5H09007-01) Water

Calcium	153	0.500	mg/L	50	EH51103	08/11/05	08/11/05	EPA 6010B	
Magnesium	23.7	0.0100	"	10	"	"	"	"	
Potassium	5.05	0.0500	"	1	"	"	"	"	
Sodium	96.8	0.500	"	50	"	"	"	"	

Monitor Well #3 (5H09007-02) Water

Calcium	196	0.500	mg/L	50	EH51103	08/11/05	08/11/05	EPA 6010B	
Magnesium	31.1	0.0100	"	10	"	"	"	"	
Potassium	5.95	0.0500	"	1	"	"	"	"	
Sodium	85.6	0.100	"	10	"	"	"	"	

Monitor Well #4 (5H09007-03) Water

Calcium	219	0.500	mg/L	50	EH51103	08/11/05	08/11/05	EPA 6010B	
Magnesium	33.3	0.0100	"	10	"	"	"	"	
Potassium	4.87	0.0500	"	1	"	"	"	"	
Sodium	110	0.500	"	50	"	"	"	"	

Environmental Lab of Texas

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

Page 4 of 10

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

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 EH51001 - EPA 5030C (GC)

Blank (EH51001-BL.K1)

Prepared & Analyzed: 08/10/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	98.2		ug/l	100		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	89.7		"	100		89.7	80-120			

LCS (EH51001-BS1)

Prepared & Analyzed: 08/10/05

Benzene	89.3		ug/l	100		89.3	80-120			
Toluene	92.2		"	100		92.2	80-120			
Ethylbenzene	91.4		"	100		91.4	80-120			
Xylene (p/m)	185		"	200		92.5	80-120			
Xylene (o)	85.5		"	100		85.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	116		"	100		116	80-120			
Surrogate: 4-Bromofluorobenzene	115		"	100		115	80-120			

Calibration Check (EH51001-CCV1)

Prepared & Analyzed: 08/10/05

Benzene	97.2		ug/l	100		97.2	80-120			
Toluene	95.9		"	100		95.9	80-120			
Ethylbenzene	89.1		"	100		89.1	80-120			
Xylene (p/m)	179		"	200		89.5	80-120			
Xylene (o)	81.7		"	100		81.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	0-200			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	0-200			

Matrix Spike (EH51001-MS1)

Source: 5H03013-01

Prepared: 08/10/05 Analyzed: 08/11/05

Benzene	98.7		ug/l	100	ND	98.7	80-120			
Toluene	99.4		"	100	ND	99.4	80-120			
Ethylbenzene	99.9		"	100	ND	99.9	80-120			
Xylene (p/m)	202		"	200	ND	101	80-120			
Xylene (o)	92.7		"	100	ND	92.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	90.6		"	100		90.6	80-120			
Surrogate: 4-Bromofluorobenzene	103		"	100		103	80-120			

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

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
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Batch EH51001 - EPA 5030C (GC)

Matrix Spike Dup (EH51001-MSD1)

Source: 5H03013-01

Prepared: 08/10/05 Analyzed: 08/11/05

Benzene	90.5		ug/l	100	ND	90.5	80-120	8.67	20	
Toluene	93.1		"	100	ND	93.1	80-120	6.55	20	
Ethylbenzene	93.7		"	100	ND	93.7	80-120	6.40	20	
Xylene (p/m)	188		"	200	ND	94.0	80-120	7.18	20	
Xylene (o)	87.9		"	100	ND	87.9	80-120	5.32	20	
Surrogate: a,a,a-Trifluorotoluene	86.9		"	100		86.9	80-120			
Surrogate: 4-Bromofluorobenzene	93.4		"	100		93.4	80-120			

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

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 EH51002 - General Preparation (WetChem)

Blank (EH51002-BLK1)

Prepared: 08/10/05 Analyzed: 08/11/05

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EH51002-DUP1)

Source: SH09005-01

Prepared: 08/10/05 Analyzed: 08/11/05

Total Dissolved Solids 1120 5.00 mg/L 1080 3.64 5

Batch EH51207 - General Preparation (WetChem)

Blank (EH51207-BLK1)

Prepared & Analyzed: 08/10/05

Total Alkalinity ND 2.00 mg/L

Duplicate (EH51207-DUP1)

Source: SH09005-01

Prepared & Analyzed: 08/10/05

Total Alkalinity 137 2.00 mg/L 140 2.17 20

Reference (EH51207-SRM1)

Prepared & Analyzed: 08/10/05

Bicarbonate Alkalinity 230 mg/L 200 115 80-120

Batch EH51906 - General Preparation (WetChem)

Blank (EH51906-BLK1)

Prepared & Analyzed: 08/15/05

Sulfate ND 0.500 mg/L

Chloride ND 0.500 "

LCS (EH51906-BS1)

Prepared & Analyzed: 08/15/05

Chloride 8.36 mg/L 10.0 83.6 80-120

Sulfate 9.43 " 10.0 94.3 80-120

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

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 EH51906 - General Preparation (WetChem)

Calibration Check (EH51906-CCV1)

Prepared & Analyzed: 08/15/05

Chloride	9.85		mg/L	10.0		98.5	80-120			
Sulfate	11.4		"	10.0		114	80-120			

Duplicate (EH51906-DUP1)

Source: 5H09007-02

Prepared & Analyzed: 08/15/05

Chloride	202	5.00	mg/L		203			0.494	20	
Sulfate	122	5.00	"		122			0.00	20	

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
08/24/05 10:08

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RBC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH51103 - 6010B/No Digestion

Blank (EH51103-BLK1)

Prepared & Analyzed: 08/11/05

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EH51103-CCV1)

Prepared & Analyzed: 08/11/05

Calcium	1.95		mg/L	2.00		97.5	85-115			
Magnesium	2.17		"	2.00		108	85-115			
Potassium	1.90		"	2.00		95.0	85-115			
Sodium	1.84		"	2.00		92.0	85-115			

Duplicate (EH51103-DUP1)

Source: 5H09005-01

Prepared & Analyzed: 08/11/05

Calcium	148	0.500	mg/L		153			3.32	20	
Magnesium	24.3	0.0100	"		24.7			1.63	20	
Potassium	5.97	0.0500	"		5.92			0.841	20	
Sodium	80.0	0.100	"		81.4			1.73	20	

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

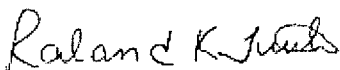
Fax: (505) 397-1471

Reported:
08/24/05 10:08

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:



Date:

8/24/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

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

Client: PWP Op.
 Date/Time: 8/9/05 15:12
 Order #: 541091007
 Initials: CR

Sample Receipt Checklist

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

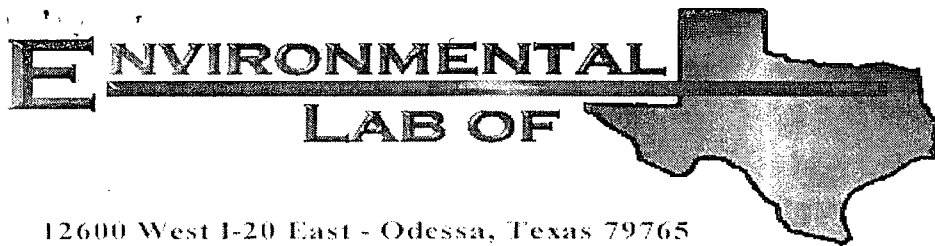
Other observations:

H09007-01-03 Neutral pH 8/9/05

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: Hobbs F-29 SWD
Project Number: None Given
Location: Lea County

Lab Order Number: 5K02009

Report Date: 11/10/05

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	5K02009-01	Water	10/31/05 10:10	11/02/05 14:05
MW-3	5K02009-02	Water	10/31/05 11:45	11/02/05 14:05
MW-4	5K02009-03	Water	10/31/05 13:05	11/02/05 14:05

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-2 (5K02009-01) Water

Benzene	ND	0.00100	mg/L	1	EK50220	11/02/05	11/02/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	

MW-3 (5K02009-02) Water

Benzene	ND	0.00100	mg/L	1	EK50220	11/02/05	11/02/05	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		94.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-120		"	"	"	"	

MW-4 (5K02009-03) Water

Benzene	ND	0.00100	mg/L	1	EK50220	11/02/05	11/02/05	EPA 8021B	
Toluene	J [0.000774]	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000385]	0.00100	"	"	"	"	"	"	
Xylene (p/m)	J [0.000842]	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	80-120		"	"	"	"	

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5K02009-01) Water									
Total Alkalinity	208	4.00	mg/L	2	EK50912	11/09/05	11/09/05	EPA 310.2M	
Chloride	185	10.0	"	20	EK50703	11/04/05	11/07/05	EPA 300.0	
Total Dissolved Solids	762	5.00	"	1	EK50803	11/03/05	11/04/05	EPA 160.1	
Sulfate	100	10.0	"	20	EK50703	11/04/05	11/07/05	EPA 300.0	
MW-3 (5K02009-02) Water									
Total Alkalinity	228	4.00	mg/L	2	EK50912	11/09/05	11/09/05	EPA 310.2M	
Chloride	113	5.00	"	10	EK50703	11/04/05	11/07/05	EPA 300.0	
Total Dissolved Solids	732	5.00	"	1	EK50803	11/03/05	11/04/05	EPA 160.1	
Sulfate	116	5.00	"	10	EK50703	11/04/05	11/07/05	EPA 300.0	
MW-4 (5K02009-03) Water									
Total Alkalinity	176	4.00	mg/L	2	EK50912	11/09/05	11/09/05	EPA 310.2M	
Chloride	411	10.0	"	20	EK50703	11/04/05	11/07/05	EPA 300.0	
Total Dissolved Solids	1560	5.00	"	1	EK50803	11/03/05	11/04/05	EPA 160.1	
Sulfate	156	10.0	"	20	EK50703	11/04/05	11/07/05	EPA 300.0	

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (5K02009-01) Water									
Calcium	136	0.500	mg/L	50	EK50907	11/09/05	11/09/05	EPA 6010B	
Magnesium	24.4	0.0100	"	10	"	"	"	"	
Potassium	4.79	0.0500	"	1	"	"	"	"	
Sodium	85.0	0.500	"	50	"	"	"	"	
MW-3 (5K02009-02) Water									
Calcium	125	0.500	mg/L	50	EK50907	11/09/05	11/09/05	EPA 6010B	
Magnesium	23.4	0.0100	"	10	"	"	"	"	
Potassium	4.45	0.0500	"	1	"	"	"	"	
Sodium	60.3	0.500	"	50	"	"	"	"	
MW-4 (5K02009-03) Water									
Calcium	241	0.500	mg/L	50	EK50907	11/09/05	11/09/05	EPA 6010B	
Magnesium	43.6	0.0100	"	10	"	"	"	"	
Potassium	5.20	0.0500	"	1	"	"	"	"	
Sodium	98.5	0.500	"	50	"	"	"	"	

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

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 EK50220 - EPA 5030C (GC)

Blank (EK50220-BLK1)

Prepared & Analyzed: 11/02/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/l	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	37.2		"	40.0		93.0	80-120			

LCS (EK50220-BS1)

Prepared & Analyzed: 11/02/05

Benzene	0.0473	0.00100	mg/L	0.0500		94.6	80-120			
Toluene	0.0493	0.00100	"	0.0500		98.6	80-120			
Ethylbenzene	0.0486	0.00100	"	0.0500		97.2	80-120			
Xylene (p/m)	0.0916	0.00100	"	0.100		91.6	80-120			
Xylene (o)	0.0498	0.00100	"	0.0500		99.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.3		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	80-120			

Calibration Check (EK50220-CCV1)

Prepared & Analyzed: 11/02/05

Benzene	41.5		ug/l	50.0		83.0	80-120			
Toluene	40.6		"	50.0		81.2	80-120			
Ethylbenzene	40.7		"	50.0		81.4	80-120			
Xylene (p/m)	81.2		"	100		81.2	80-120			
Xylene (o)	41.5		"	50.0		83.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	33.8		"	40.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			

Matrix Spike (EK50220-MS1)

Source: 5K02011-01

Prepared: 11/02/05 Analyzed: 11/03/05

Benzene	0.0431	0.00100	mg/L	0.0500	ND	86.2	80-120			
Toluene	0.0450	0.00100	"	0.0500	0.000346	89.3	80-120			
Ethylbenzene	0.0434	0.00100	"	0.0500	ND	86.8	80-120			
Xylene (p/m)	0.0849	0.00100	"	0.100	0.000799	84.1	80-120			
Xylene (o)	0.0445	0.00100	"	0.0500	ND	89.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/l	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.4		"	40.0		83.5	80-120			

Environmental Lab of Texas

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

Page 5 of 10

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

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
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Batch EK50220 - EPA 5030C (GC)

Matrix Spike Dup (EK50220-MSD1)

Source: 5K02011-01

Prepared & Analyzed: 11/02/05

Benzene	0.0443	0.00100	mg/L	0.0500	ND	88.6	80-120	2.75	20	
Toluene	0.0460	0.00100	"	0.0500	0.000346	91.3	80-120	2.21	20	
Ethylbenzene	0.0449	0.00100	"	0.0500	ND	89.8	80-120	3.40	20	
Xylene (p/m)	0.0849	0.00100	"	0.100	0.000799	84.1	80-120	0.00	20	
Xylene (o)	0.0467	0.00100	"	0.0500	ND	93.4	80-120	4.82	20	
Surrogate: a,a,a-Trifluorotoluene	38.1		ug/l	40.0		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120			

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

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
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Batch EK50703 - General Preparation (WetChem)

Blank (EK50703-BLK1) Prepared: 11/04/05 Analyzed: 11/07/05

Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

LCS (EK50703-BS1) Prepared: 11/04/05 Analyzed: 11/07/05

Chloride	8.00		mg/L	10.0		80.0	80-120			
Sulfate	8.75		"	10.0		87.5	80-120			

Calibration Check (EK50703-CCV1) Prepared: 11/04/05 Analyzed: 11/07/05

Chloride	8.13		mg/L	10.0		81.3	80-120			
Sulfate	8.85		"	10.0		88.5	80-120			

Duplicate (EK50703-DUP1) Source: 5K02009-01 Prepared: 11/04/05 Analyzed: 11/07/05

Sulfate	105	10.0	mg/L		100			4.88	20	
Chloride	189	10.0	"		185			2.14	20	

Batch EK50803 - General Preparation (WetChem)

Blank (EK50803-BLK1) Prepared: 11/03/05 Analyzed: 11/04/05

Total Dissolved Solids	ND	5.00	mg/L							
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Duplicate (EK50803-DUP1) Source: 5K02009-01 Prepared: 11/03/05 Analyzed: 11/04/05

Total Dissolved Solids	736	5.00	mg/L		762			3.47	5	
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Batch EK50912 - General Preparation (WetChem)

Blank (EK50912-BLK1) Prepared & Analyzed: 11/09/05

Total Alkalinity	ND	2.00	mg/L							
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

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
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Batch EK50912 - General Preparation (WetChem)

Duplicate (EK50912-DUP1)

Source: 5K02009-01

Prepared & Analyzed: 11/09/05

Total Alkalinity	206	4.00	mg/L		208			0.966	20	
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Reference (EK50912-SRM1)

Prepared & Analyzed: 11/09/05

Bicarbonate Alkalinity	229		mg/L	200		114	80-120			
------------------------	-----	--	------	-----	--	-----	--------	--	--	--

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
11/10/05 14:27

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 EK50907 - 6010B/No Digestion

Blank (EK50907-BLK1)

Prepared & Analyzed: 11/09/05

Calcium	ND	0.0100	mg/L
Magnesium	ND	0.00100	"
Potassium	ND	0.0500	"
Sodium	ND	0.0100	"

Calibration Check (EK50907-CCV1)

Prepared & Analyzed: 11/09/05

Calcium	1.96		mg/L	2.00		98.0	85-115
Magnesium	2.14		"	2.00		107	85-115
Potassium	1.89		"	2.00		94.5	85-115
Sodium	1.88		"	2.00		94.0	85-115

Duplicate (EK50907-DUP1)

Source: 5K02009-01

Prepared & Analyzed: 11/09/05

Calcium	146	0.500	mg/L	136		7.09	20
Magnesium	24.7	0.0100	"	24.4		1.22	20
Potassium	4.71	0.0500	"	4.79		1.68	20
Sodium	87.3	0.500	"	85.0		2.67	20

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Pope

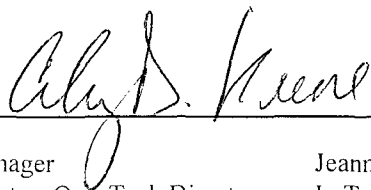
Fax: (505) 397-1471

Reported:
11/10/05 14:27

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:



Date:

11/11/05

Raland K. Tuttle, Lab Manager

Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

LaTasha Cornish, Chemist

Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Hobbs F-29 SWO

Company Name RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

PO #:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

10

Email: rozanne@valornet.com

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Op.

Date/Time: 11/2/05 2:05

Order #: SR02009

Initials: CP

Sample Receipt Checklist

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

Other observations:

Variance Documentation:

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

Corrective Action Taken:

R.T. HICKS CONSULTANTS, LTD.

1909 Brunson Avenue ■ Midland, Texas 79701-6924 ■ 432.638.8740 ■ Fax: 413.403.9968

CERTIFIED MAIL

RETURN RECIEPT NO. 7099 3400 0017 1737 2343

March 24, 2006

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

RE: 2005 ANNUAL MONITORING REPORT
F-29 SWD SITE
T18S-R38E-SECTION 29, UNIT LETTER F
NMOCD CASE #: 1R0428 (AMMENDMENT # NOT ASSIGNED)

Mr. Price:

1R0218

R. T. Hicks Consultants, Ltd. takes this opportunity to submit the 2005 Annual Monitoring Well Report for the F-29 Salt Water Disposal (SWD) site located in Hobbs New Mexico. In 2006, Arc Environmental will sample the well and Environmental Lab of Texas of Odessa, Texas will continue to analyze the water samples.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me at (423) 638-8740 or Kristin Farris Pope at (505) 393-9174.

Sincerely,



Gilbert J. Van Deventer, REM, PG, NMCS
R. T. Hicks Consultants Ltd.

enclosures: Summary table, graphs, maps, and laboratory analytical reports

cc: LBG, CDH, KFP, file

TABLE AND FIGURES

Table 1
Summary of Groundwater Sampling Results
Hobbs F-29 SWD

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-2	03/21/00			2,564	6,660				
	07/10/00	49.00	3596.71	1,829	3,470	<0.002	<0.002	<0.002	<0.006
	09/27/00	49.26	3596.45	1,748	3,032	<0.002	<0.002	<0.002	<0.006
	12/12/00	49.61	3596.10	1,027	2,586	<0.002	<0.002	<0.002	<0.006
	01/04/01			308	1,114				
	03/16/01			396	1,373				
	03/23/01			368	1,312				
	05/07/01			365	1,272				
	06/08/01			513	1,796				
	08/14/01			340	1,385				
	12/29/01	51.13	3594.58						
	01/04/02	51.16	3594.55	308	1,114				
	06/06/02			221		<0.001	<0.001	<0.001	<0.001
	08/14/02	52.07	3593.64	186	806	<0.001	<0.001	<0.001	<0.001
	12/11/02	52.58	3593.13	172	738	<0.002	<0.002	<0.002	<0.006
	03/21/03	52.94	3592.77	230		<0.001	<0.001	<0.001	<0.001
	05/28/03	53.15	3592.56	257	804	<0.001	<0.001	<0.001	<0.001
	09/22/03	53.71	3592.00	151	700	<0.001	<0.001	<0.001	<0.001
	12/18/03	54.10	3591.61	208	815	<0.002	0.003	<0.002	0.014
	03/15/04	54.33	3591.38	186	607	<0.001	<0.001	<0.001	<0.001
	05/27/04			213	830	<0.001	<0.001	<0.001	<0.001
	09/08/04	54.60	3591.11	248	946	0.005	0.000	0.001	0.001
	11/23/04	54.20	3591.51	139	888	0.004	<0.001	<0.001	0.001
	03/22/05	53.39	3592.32	214	914	<0.001	<0.001	<0.001	<0.001
	05/18/05	53.35	3592.36	223	930	<0.001	<0.001	<0.001	<0.001
	08/08/05	53.55	3592.16	210	799	<0.001	<0.001	<0.001	<0.001
	10/31/05	53.81	3591.90	185	762	<0.001	<0.001	<0.001	<0.001
MW-3	01/04/01			136	1,013				
	12/29/01	51.20	3594.56						
	01/04/02	51.24	3594.52	136	1,013				
	05/24/02			137	917	<0.001	<0.001	<0.001	<0.001
	08/14/02	52.12	3593.64	151	998	<0.001	<0.001	<0.001	<0.001
	12/11/02	52.64	3593.12	136	1,069	0.005	<0.002	<0.002	<0.006
	03/21/03	52.98	3592.78	133		<0.001	<0.001	<0.001	<0.001
	05/28/03	53.70	3592.06	301	1,120	<0.001	<0.001	<0.001	<0.001
	09/22/03	53.74	3592.02	120	881	<0.001	<0.001	<0.001	<0.001
	12/18/03	54.59	3591.17	124	852	<0.002	<0.002	<0.002	<0.006
	03/15/04	54.35	3591.41	115	1,140	<0.001	<0.001	<0.001	<0.001
	05/27/04			111	810	<0.001	<0.001	<0.001	<0.001
	09/08/04	54.60	3591.16	230	937	<0.001	<0.001	<0.001	<0.001
	11/23/04	54.40	3591.36	115	925	<0.001	<0.001	<0.001	<0.001
	03/22/05	53.40	3592.36	162	796	<0.001	<0.001	<0.001	<0.001
	05/18/05	53.38	3592.38	272	1,050	<0.001	<0.001	<0.001	<0.001
	08/08/05	53.90	3591.86	203	945	<0.001	<0.001	<0.001	<0.001
	10/31/05	53.57	3592.19	113	732	<0.001	<0.001	<0.001	<0.001
MW-4	01/04/01			464	1,781				
	12/29/01	51.51	3594.25						
	01/04/02	51.56	3594.20	464	1,781				
	05/24/02			461	1,520	<0.001	<0.001	<0.001	<0.001
	08/14/02	52.50	3593.26	416	1,660	<0.001	<0.001	<0.001	<0.001
	12/11/02	53.00	3592.76	336	1,302	0.003	<0.002	<0.002	<0.006
	03/21/03	53.41	3592.35	346		<0.001	<0.001	<0.001	<0.001
	05/28/03	53.25	3592.51	124	742	<0.001	<0.001	<0.001	<0.001
	09/22/03	54.21	3591.55	425	1,640	<0.001	<0.001	<0.001	<0.001
	12/18/03	54.12	3591.64	660	1,902	<0.002	<0.002	<0.002	<0.006
	03/15/04	54.84	3590.92	452	1,510	<0.001	<0.001	<0.001	<0.001
	05/27/04			461	1,600	<0.001	<0.001	<0.001	<0.001
	09/08/04	54.80	3590.96	372	1,300	<0.001	<0.001	<0.001	<0.001
	11/23/04	54.40	3591.36	401	1,550	<0.001	<0.001	<0.001	<0.001
	03/22/05	53.76	3592.00	392	1,220	<0.001	<0.001	<0.001	<0.001
	05/18/05	53.78	3591.98	336	1,230	<0.001	<0.001	<0.001	<0.001
	08/08/05	53.98	3591.78	370	1,230	<0.001	<0.001	<0.001	<0.001
	10/31/05	53.82	3591.94	411	1,560	<0.001	0.001	<0.001	0.001
WQCC Standards				250	1000	0.01	0.75	0.75	0.62

Total Dissolved Solids (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L).

Analysis performed by Cardinal Labs, Hobbs, NM (1995-1998) and Environmental Lab of Texas, Odessa, TX (1999-2003).

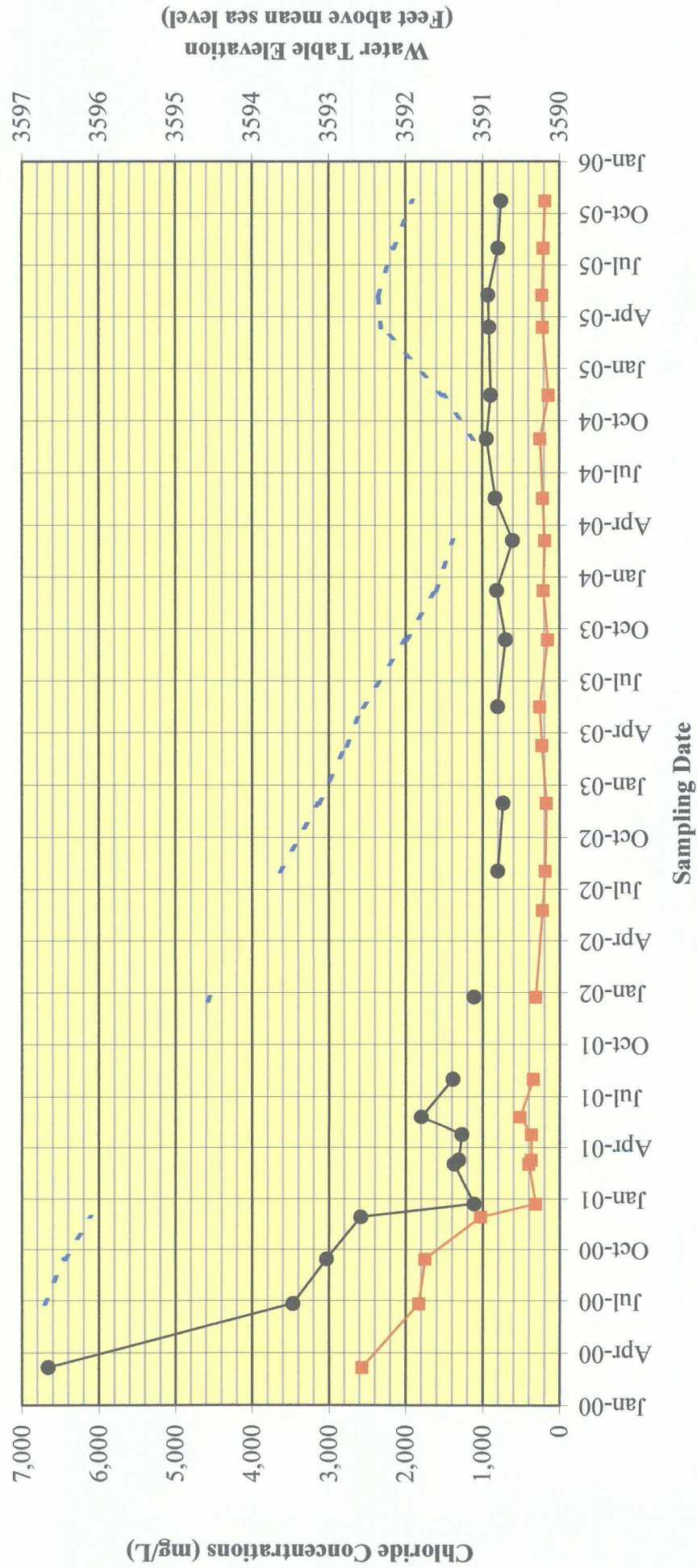
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.

AMSL - Above Mean Sea Level; BTOC - Below Top of Casing

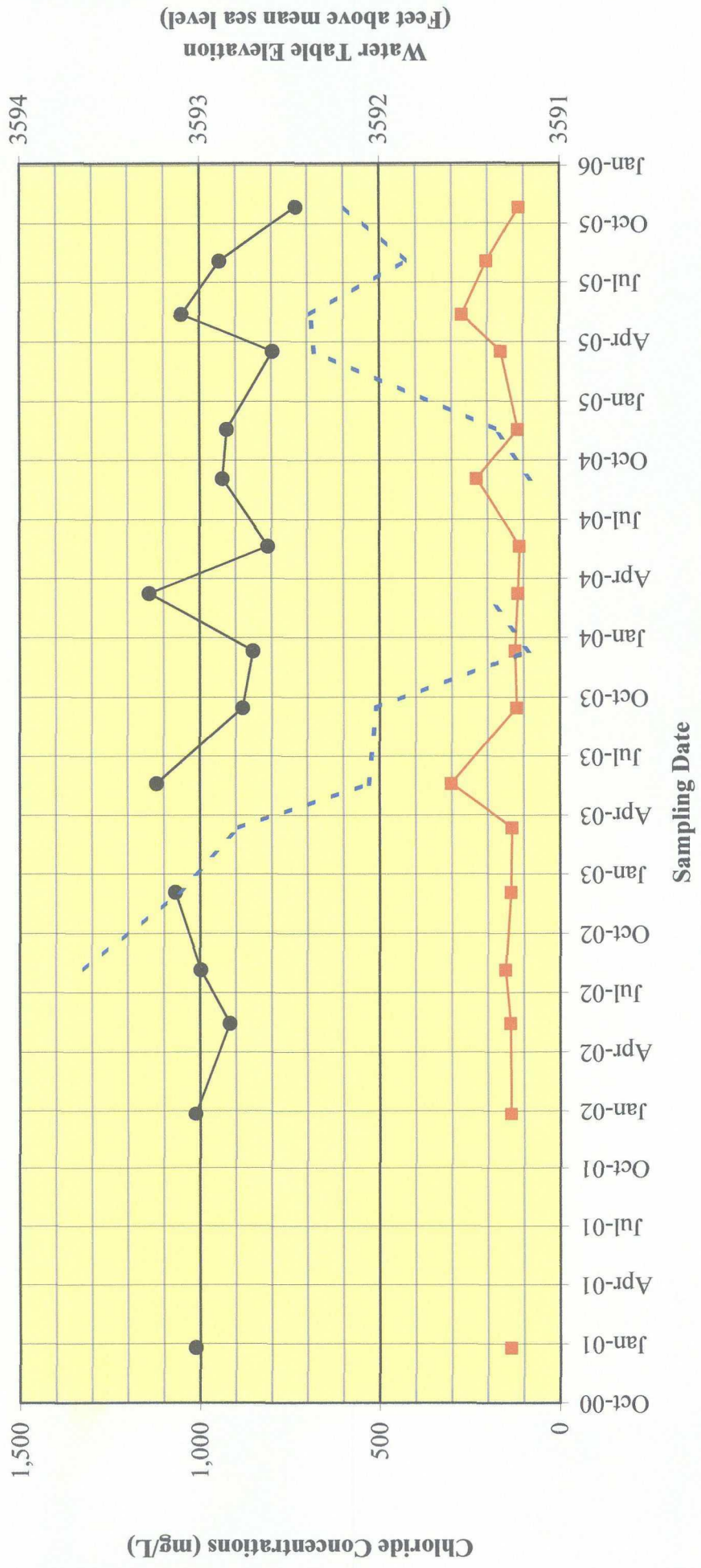
Elevations and state plane coordinates surveyed by Basin Survey, Hobbs, NM.

Areas shaded in gray indicate data was not obtained or analyzed for that constituent.

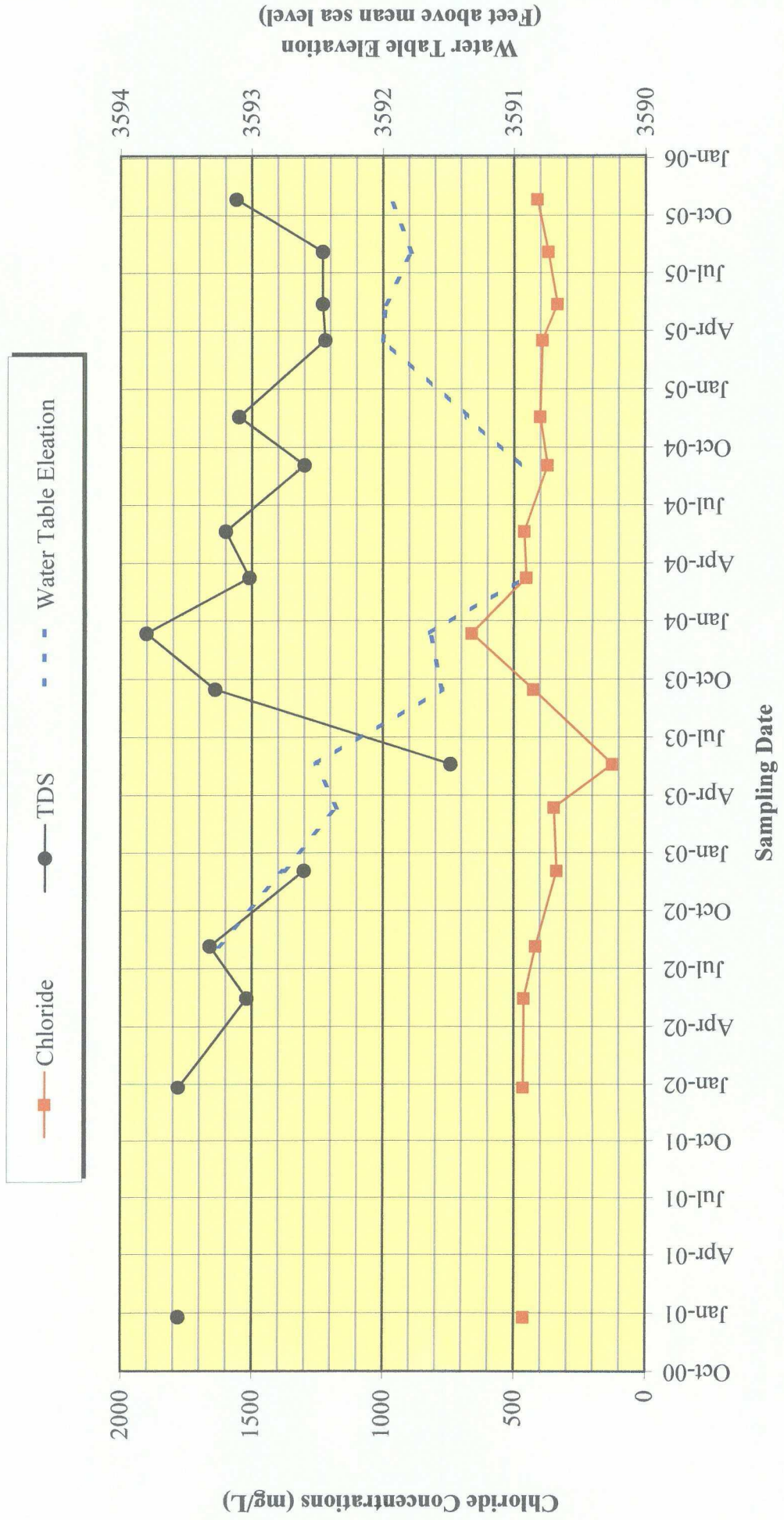
MW-2
 Chloride, TDS Concentrations, and Water Table Elevation Versus Time Graph
 Hobbs F-29 SWD

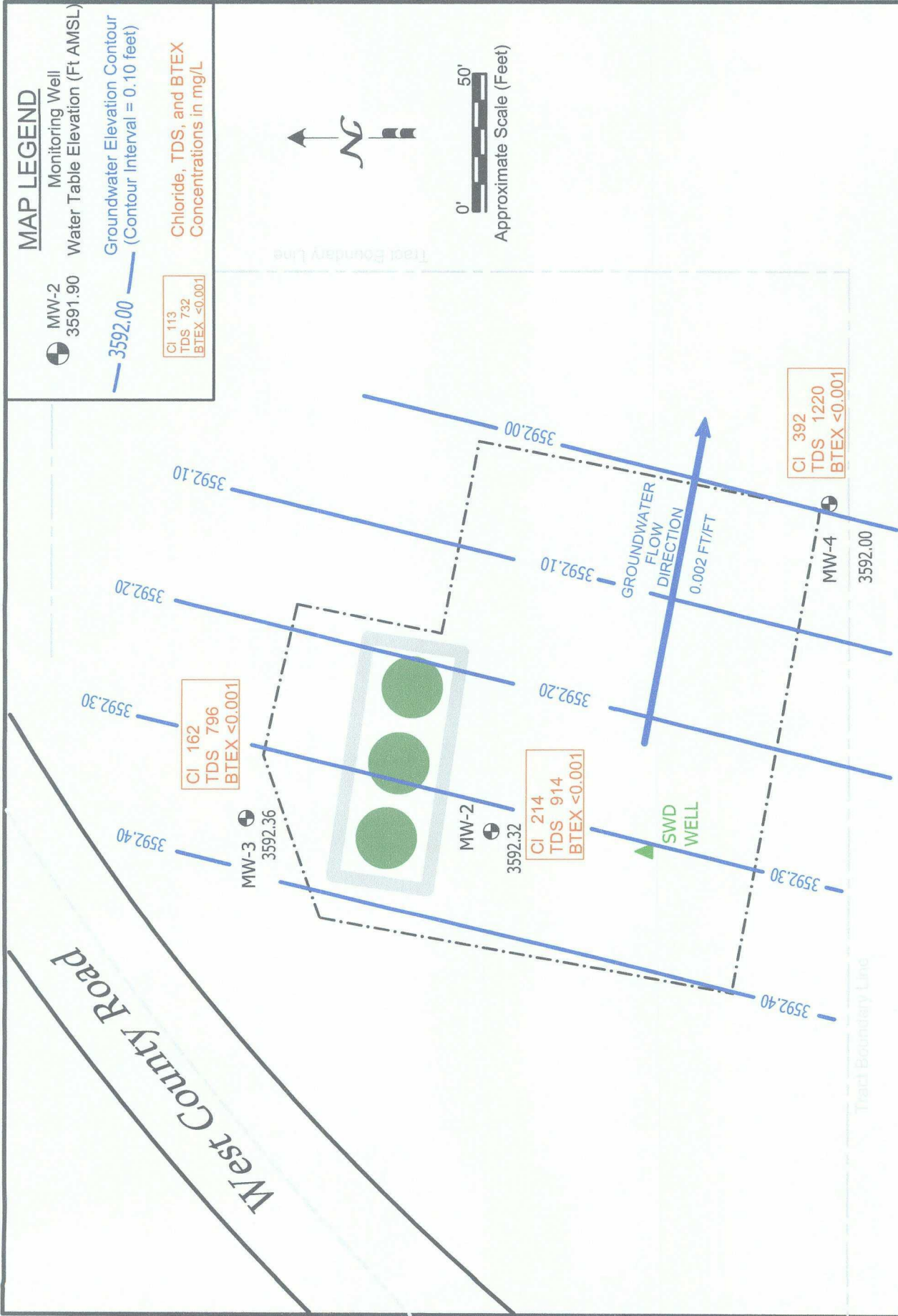


MW-3
 Chloride, TDS Concentrations, and Water Table Elevation Versus Time Graph
 Hobbs F-29 SWD

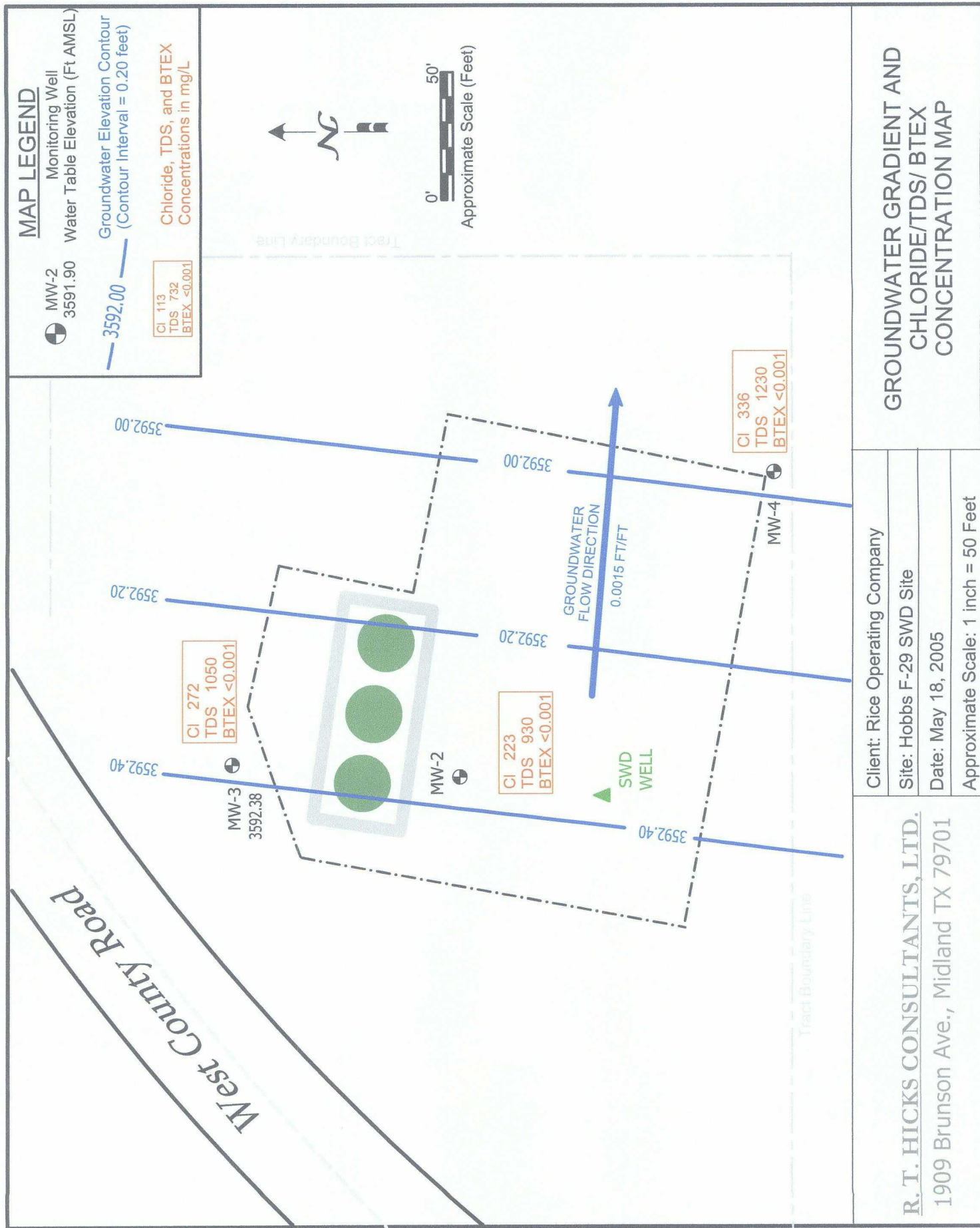


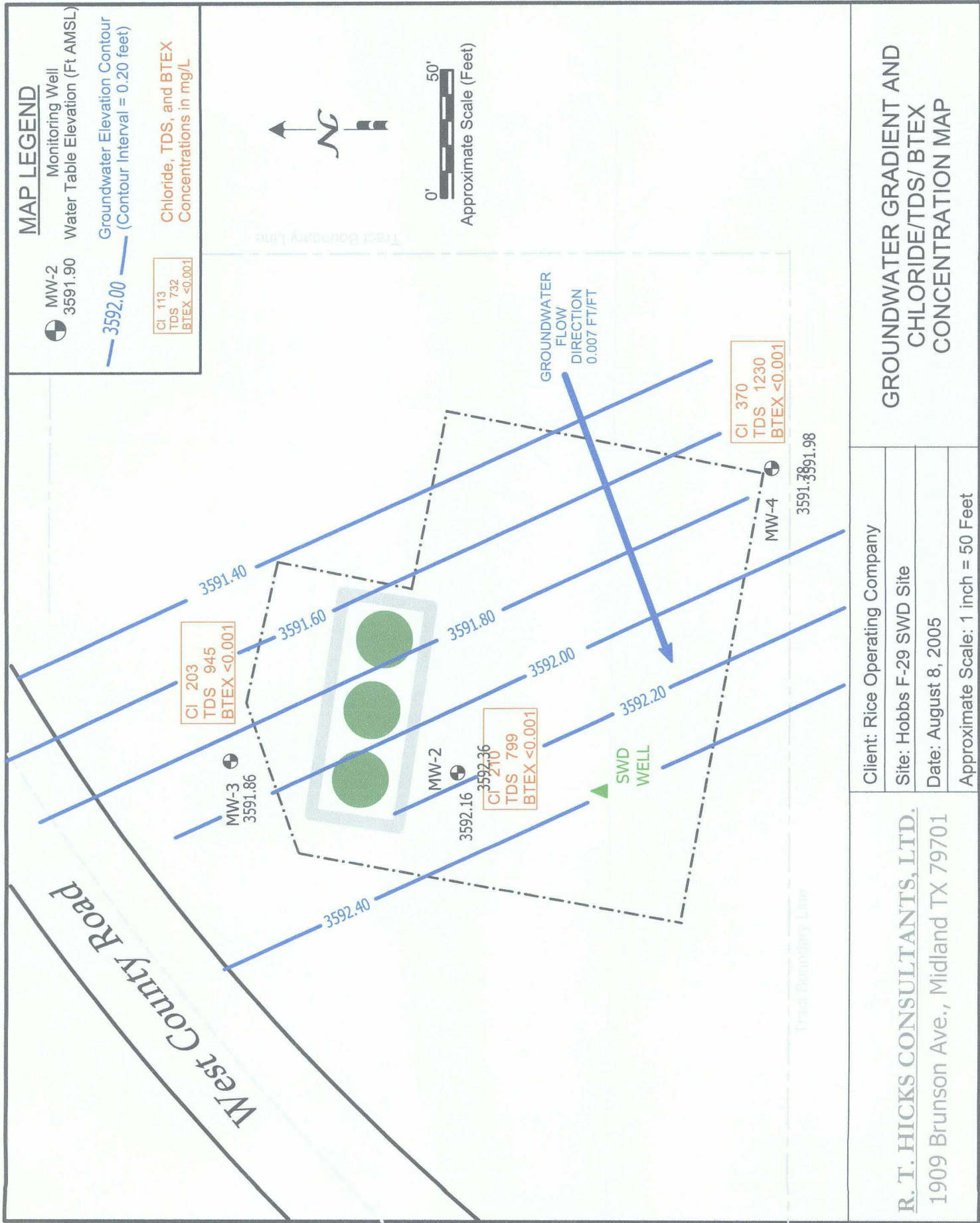
MW-4
 Chloride, TDS Concentrations, and Water Table Elevation Versus Time Graph
 Hobbs F-29 SWD

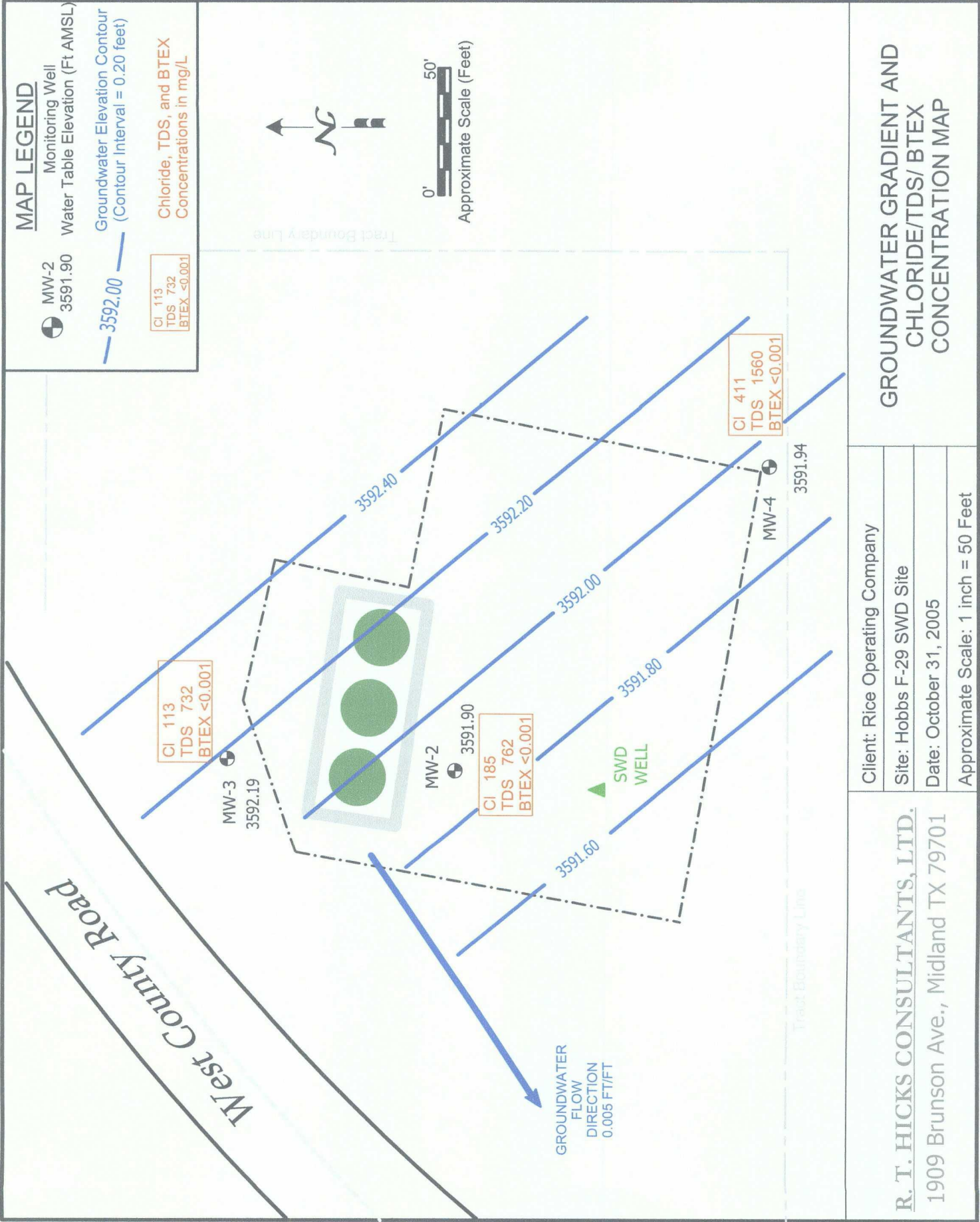




GROUNDWATER GRADIENT AND CHLORIDE/TDS/ BTEX CONCENTRATION MAP	
Client: Rice Operating Company	R. T. HICKS CONSULTANTS, LTD.
Site: Hobbs F-29 SWD Site	1909 Brunson Ave., Midland TX 79701
Date: March 22, 2005	
Approximate Scale: 1 inch = 50 Feet	







LABORATORY ANALYTICAL REPORTS

AND

CHAINS OF CUSTODY

(INCLUDED ON ATTACHED COMPACT DISK)