

AP - 59

F-35

**ANNUAL GW MONITORING
REPORT**

DATE:

2006

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

AP-59
F-35 Annual Gw Mon. Report
2006

February 12, 2007

Wayne Price
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: 2006 Annual Ground Water Monitoring Report
F-35 SWD, Sec 35, T17S, R35E, Unit "F"
NMOCD Case #: AP-59

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2006 Annual Ground Water Monitoring Report for the F-35 SWD site located in the Vacuum Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
2. Graphs showing chemical concentration vs. time for chloride and TDS.
3. Laboratory data sheets associated with the routine sampling for 2006.
4. Potentiometric surface map.

The Vadose Zone Remedy Plan was submitted to NMOCD on November 15, 2006. The Vadose Zone Remedy Plan is pending NMOCD approval.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of the annual report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely,
R.T. Hicks Consultants, Ltd.



Randall T. Hicks
Principal

Copy: Hobbs NMOCD office; Rice Operating Company

Table 1: chemistry over time

F-35 SWD

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (ug/L)	Toluene (ug/L)	EthylBenzene (ug/L)	Total Xylenes (ug/L)	Comments
MW-1	1/10/2002	58.00	5200	5	9425	0.050	0.053	0.050	0.0900	
MW-1	1/10/2002	58.00	5200	5	9425	0.050	0.053	0.050	0.0900	
MW-1	5/15/2002	XXX	3720	3.2	7050	0.744	0.207	0.510	0.3090	
MW-1	5/15/2002	XXX	3720	3.2	7050	0.744	0.207	0.510	0.3090	
MW-1	8/19/2002	XXX	3630	10.7	6040	0.705	0.172	0.112	0.0760	
MW-1	8/19/2002	XXX	3630	10.7	6040	0.705	0.172	0.112	0.0760	
MW-1	11/11/2002	XXX	3720	2.8	6020	1.210	0.343	0.835	0.4310	
MW-1	11/11/2002	XXX	3720	2.8	6020	1.210	0.343	0.835	0.4310	
MW-1	2/28/2003	XXX	2200	26.2	4040	0.909	0.840	0.321	0.1240	
MW-1	2/28/2003	XXX	2200	26.2	4040	0.909	0.840	0.321	0.1240	
MW-1	6/5/2003	XXX	2300	20.3	4180	0.632	0.134	0.061	0.0670	
MW-1	6/5/2003	XXX	2300	20.3	4180	0.632	0.134	0.061	0.0670	
MW-1	8/21/2003	XXX	2060	4.9	4000	0.617	0.360	0.202	0.1920	
MW-1	8/21/2003	XXX	2060	4.9	4000	0.617	0.360	0.202	0.1920	
MW-1	11/19/2003	XXX	2000	5.1	3760	0.797	0.301	0.264	0.2480	
MW-1	11/19/2003	XXX	2000	5.1	3760	0.797	0.301	0.264	0.2480	
MW-1	2/18/2004	58.20	1819	0.19	3932	0.349	0.038	0.121	0.0270	
MW-1	2/18/2004	58.20	1819	0.19	3932	0.349	0.038	0.121	0.0270	
MW-1	5/27/2004	58.50	1759	8.7	4008	0.726	0.176	0.268	0.2150	
MW-1	5/27/2004	58.50	1759	8.7	4008	0.726	0.176	0.268	0.2150	
MW-1	9/7/2004	58.20	1040	19.9	3000	0.429	0.221	0.143	0.2247	mod. odor; gray
MW-1	9/7/2004	58.20	1040	19.9	3000	0.429	0.221	0.143	0.2247	mod. odor; gray
MW-1	11/24/2004	57.81	1260	51	2740	0.0489	0.313	0.209	0.2507	mod. odor; gray
MW-1	11/24/2004	57.81	1260	51	2740	0.0489	0.313	0.209	0.2507	mod. odor; gray
MW-1	3/21/2005	57.18	1220	110	2210	2.200	1.610	0.848	1.2830	mod. odor; gray
MW-1	3/21/2005	57.18	1220	110	2210	2.200	1.610	0.848	1.2830	mod. odor; gray
MW-1	5/11/2005		1490	24.6	2970	686	451	374	176.2000	
MW-1	5/11/2005		1490	24.6	2970	686	451	374	176.2000	

Table 1: chemistry over time

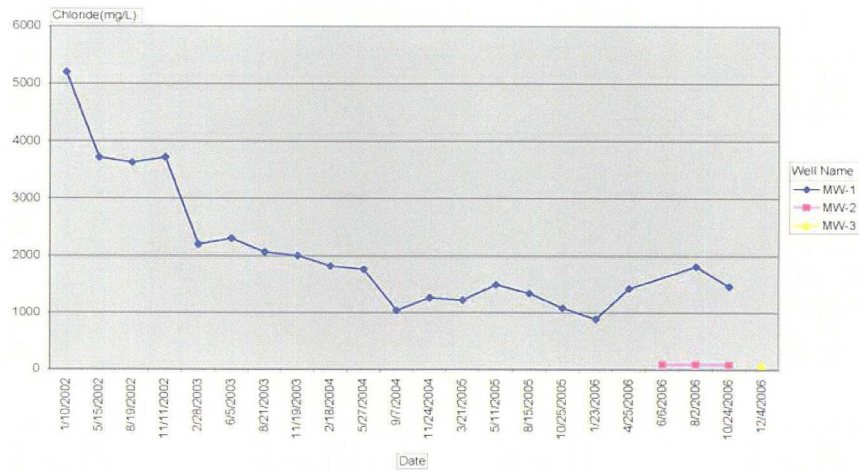
F-35 SWD

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (ug/L)	Toluene (ug/L)	EthylBenzene (ug/L)	Total Xylenes (ug/L)	Comments
MW-1	8/15/2005	58.40	1340	69.5	2890	0.819	0.393	0.666	0.5840	
MW-1	8/15/2005	58.40	1340	69.5	2890	0.819	0.393	0.666	0.5840	
MW-1	10/25/2005	57.45	1080	72.7	2540	0.779	0.243	0.394	0.3062	
MW-1	10/25/2005	57.45	1080	72.7	2540	0.779	0.243	0.394	0.3062	
MW-1	1/23/2006	57.38	886	88.2	2080	0.447	0.222	0.28	0.3006	Heavy skim of Oil: Septic Odor
MW-1	1/23/2006	57.38	886	88.2	2080	0.447	0.222	0.28	0.3006	Heavy skim of Oil: Septic Odor
MW-1	4/25/2006	57.58	1420	62.5	3040	0.227	0.0956	0.174	0.1614	
MW-1	4/25/2006	57.58	1420	62.5	3040	0.227	0.0956	0.174	0.1614	
MW-1	8/2/2006	57.69	1810	17	2680	0.349	0.108	0.213	0.2010	Heavy skim of Oil: Septic Odor Clear turning Dark Gray
MW-1	10/24/2006	XXX	1460	45.2	3190	0.462	0.489	0.230	0.745	Clear with a strong septic odor
MW-2	6/6/2006	52.57	97.6	63.3	724	<0.001	<0.001	<0.001	<0.001	Clear no odor
MW-2	6/6/2006	52.57	97.6	63.3	724	<0.001	<0.001	<0.001	<0.001	Clear no odor
MW-2	8/2/2006	52.66	96	66	723	<0.001	<0.001	<0.001	<0.001	
MW-2	10/24/2006	52.77	89.1	67.2	598	<0.001	<0.001	<0.001	<0.001	
MW-3	12/4/2006	52.18	80.1	81.5	450	0.000370	0.0150	<0.001	<0.001	Clear / Slight Odor

Ground Water Quality at F-35

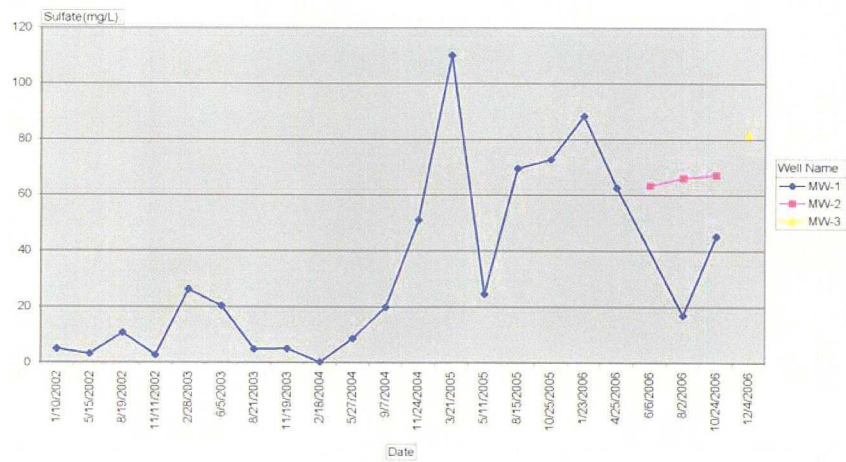
Site Name F-35 SWD

Chloride Over Time



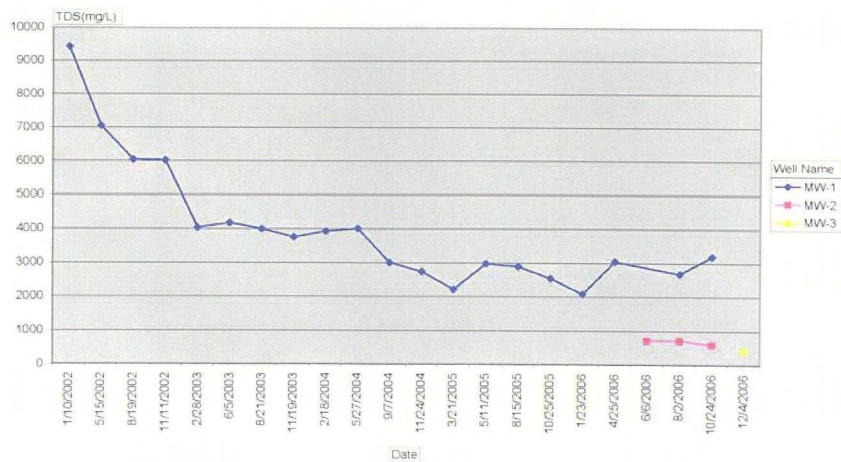
Site Name F-35 SWD

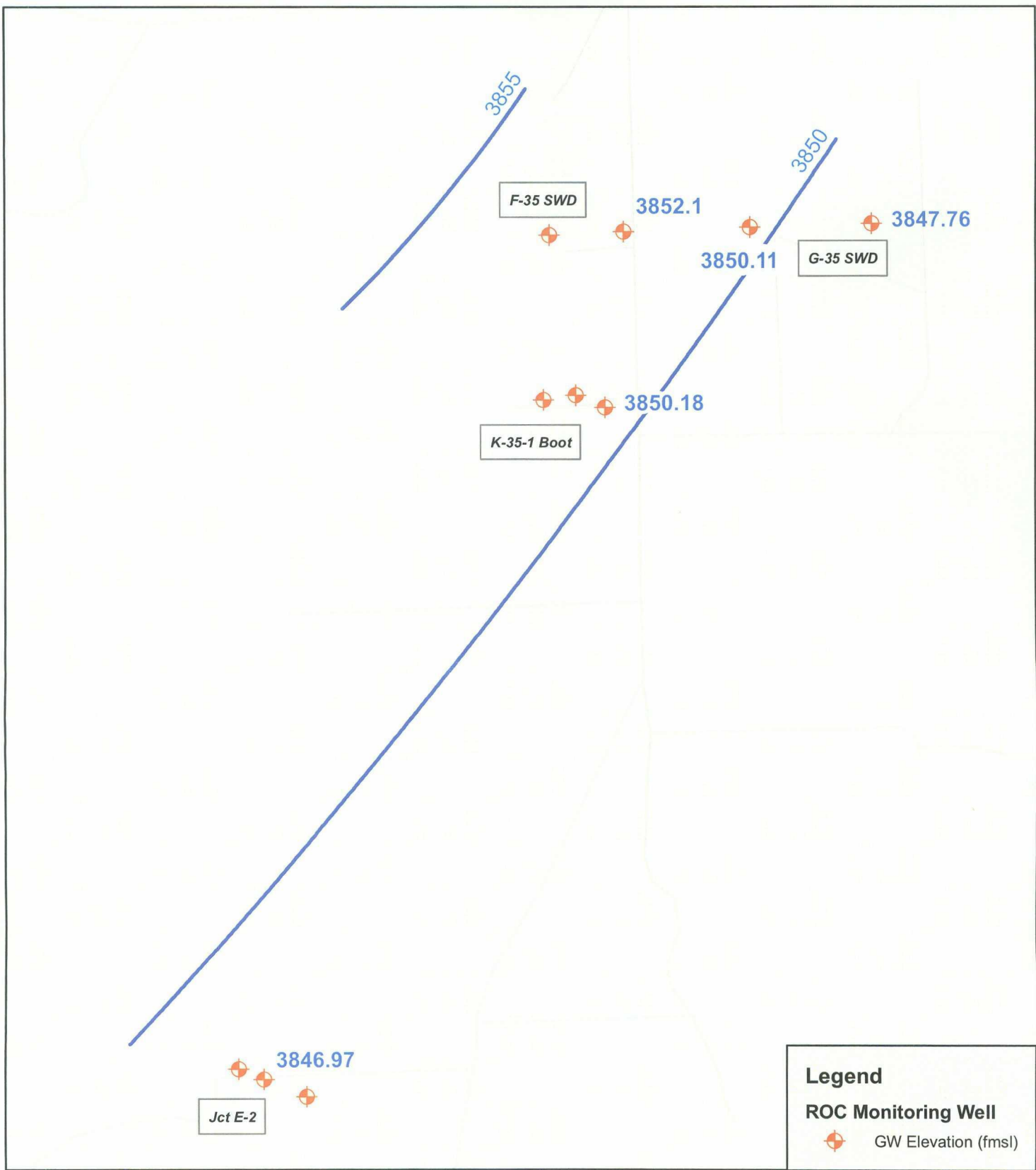
Sulfate Over Time



Site Name F-35 SWD

TDS Over Time

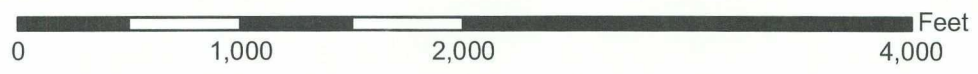




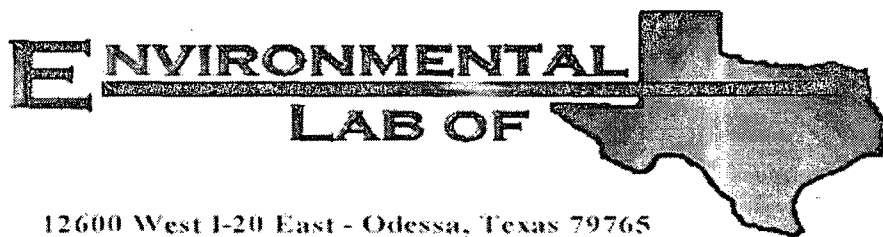
Legend

ROC Monitoring Well

GW Elevation (fmsl)



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	3rd Quarter 2006 Potentiometric Surface	
	Rice Operating Company: Hobbs SWD System	February 2007



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: Vacuum F-35 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6A25018

Report Date: 02/01/06

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/01/06 08:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6A25018-01	Water	01/23/06 13:00	01/25/06 13:25

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/01/06 08:25

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A25018-01) Water									
Benzene	0.447	0.0100	mg/L	10	EA62618	01/26/06	01/27/06	EPA 8021B	
Toluene	0.222	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.280	0.0100	"	"	"	"	"	"	
Xylene (p/m)	0.240	0.0100	"	"	"	"	"	"	
Xylene (o)	0.0606	0.0100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		112 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		115 %	80-120		"	"	"	"	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/01/06 08:25

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A25018-01) Water									
Total Alkalinity	404	2.00	mg/L	1	EA62406	01/26/06	01/26/06	EPA 310.1M	
Chloride	886	25.0	"	50	EA63004	01/30/06	01/30/06	EPA 300.0	
Total Dissolved Solids	2080	5.00	"	1	EA63003	01/26/06	01/27/06	EPA 160.1	
Sulfate	88.2	25.0	"	50	EA63004	01/30/06	01/30/06	EPA 300.0	

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 3 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
02/01/06 08:25

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A25018-01) Water									
Calcium	28.4	0.100	mg/L	10	EA62615	01/26/06	01/26/06	EPA 6010B	
Magnesium	8.99	0.0100	"	"	"	"	"	"	
Potassium	1.46	0.500	"	"	"	"	"	"	
Sodium	603	5.00	"	500	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/01/06 08:25

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 EA62618 - EPA 5030C (GC)

Blank (EA62618-BLK1)

Prepared: 01/26/06 Analyzed: 01/27/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	38.5		ug/l	40.0		96.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	80-120			

LCS (EA62618-BS1)

Prepared: 01/26/06 Analyzed: 01/27/06

Benzene	0.0566	0.00100	mg/L	0.0500		113	80-120			
Toluene	0.0557	0.00100	"	0.0500		111	80-120			
Ethylbenzene	0.0547	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100		102	80-120			
Xylene (o)	0.0538	0.00100	"	0.0500		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.2		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	32.8		"	40.0		82.0	80-120			

Calibration Check (EA62618-CCV1)

Prepared: 01/26/06 Analyzed: 01/28/06

Benzene	51.3		ug/l	50.0		103	80-120			
Toluene	52.5		"	50.0		105	80-120			
Ethylbenzene	54.5		"	50.0		109	80-120			
Xylene (p/m)	101		"	100		101	80-120			
Xylene (o)	55.6		"	50.0		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.3		"	40.0		85.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		98.8	80-120			

Matrix Spike (EA62618-MS1)

Source: 6A24010-01

Prepared: 01/26/06 Analyzed: 01/27/06

Benzene	0.0559	0.00100	mg/L	0.0500	ND	112	80-120			
Toluene	0.0548	0.00100	"	0.0500	ND	110	80-120			
Ethylbenzene	0.0515	0.00100	"	0.0500	ND	103	80-120			
Xylene (p/m)	0.0835	0.00100	"	0.100	ND	83.5	80-120			
Xylene (o)	0.0512	0.00100	"	0.0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.5		ug/l	40.0		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	34.3		"	40.0		85.8	80-120			

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/01/06 08:25

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 EA62618 - EPA 5030C (GC)

Matrix Spike Dup (EA62618-MSD1)

Source: 6A24010-01

Prepared: 01/26/06 Analyzed: 01/28/06

Benzene	0.0482	0.00100	mg/L	0.0500	ND	96.4	80-120	15.0	20	
Toluene	0.0484	0.00100	"	0.0500	ND	96.8	80-120	12.8	20	
Ethylbenzene	0.0456	0.00100	"	0.0500	ND	91.2	80-120	12.2	20	
Xylene (p/m)	0.0841	0.00100	"	0.100	ND	84.1	80-120	0.716	20	
Xylene (o)	0.0448	0.00100	"	0.0500	ND	89.6	80-120	12.9	20	
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/l	40.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/01/06 08:25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch EA62406 - General Preparation (WetChem)								
Blank (EA62406-BLK1)				Prepared & Analyzed: 01/26/06				
Total Alkalinity	ND	2.00	mg/L					
LCS (EA62406-BS1)				Prepared & Analyzed: 01/26/06				
Bicarbonate Alkalinity	220		mg/L	200		110	85-115	
Duplicate (EA62406-DUP1)				Source: 6A19005-01 Prepared & Analyzed: 01/26/06				
Total Alkalinity	258	2.00	mg/L		256		0.778	20
Reference (EA62406-SRM1)				Prepared & Analyzed: 01/26/06				
Total Alkalinity	97.0		mg/L	100		97.0	90-110	
Batch EA63003 - General Preparation (WetChem)								
Blank (EA63003-BLK1)				Prepared: 01/26/06 Analyzed: 01/27/06				
Total Dissolved Solids	ND	5.00	mg/L					
Duplicate (EA63003-DUP1)				Source: 6A25018-01 Prepared: 01/26/06 Analyzed: 01/27/06				
Total Dissolved Solids	2020	5.00	mg/L		2080		2.93	5
Batch EA63004 - General Preparation (WetChem)								
Blank (EA63004-BLK1)				Prepared & Analyzed: 01/30/06				
Sulfate	ND	0.500	mg/L					
Chloride	ND	0.500	"					
LCS (EA63004-BS1)				Prepared & Analyzed: 01/30/06				
Sulfate	9.61	0.500	mg/L	10.0		96.1	80-120	
Chloride	8.40	0.500	"	10.0		84.0	80-120	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/01/06 08:25

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 EA63004 - General Preparation (WetChem)

Calibration Check (EA63004-CCV1)

Prepared & Analyzed: 01/30/06

Sulfate	9.82		mg/L	10.0		98.2	80-120			
Chloride	8.64		"	10.0		86.4	80-120			

Duplicate (EA63004-DUP1)

Source: 6A25018-01

Prepared & Analyzed: 01/30/06

Sulfate	84.4	25.0	mg/L		88.2			4.40	20	
Chloride	879	25.0	"		886			0.793	20	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/01/06 08:25

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 EA62615 - 6010B/No Digestion

Blank (EA62615-BLK1)

Prepared & Analyzed: 01/26/06

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

Calibration Check (EA62615-CCV1)

Prepared & Analyzed: 01/26/06

Calcium	2.12		mg/L	2.00		106	85-115			
Magnesium	1.99		"	2.00		99.5	85-115			
Potassium	1.88		"	2.00		94.0	85-115			
Sodium	1.94		"	2.00		97.0	85-115			

Duplicate (EA62615-DUP1)

Source: 6A19005-01

Prepared & Analyzed: 01/26/06

Calcium	224	0.500	mg/L		222			0.897	20	
Magnesium	115	0.0500	"		120			4.26	20	
Potassium	14.6	0.500	"		15.2			4.03	20	
Sodium	306	0.500	"		313			2.26	20	

Environmental Lab of Texas

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Page 9 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
02/01/06 08:25

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:

2/1/2006

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.

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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 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope
kpriceswd@valornet.com

Project Name: Vacuum F-35 SWD

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

Email: rozanne@valornet.com

[illegible]

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

Client: Rice Op.

Date/Time: 1/25/06 13:26

Order #: 6A25018

Initials: CK

Sample Receipt Checklist

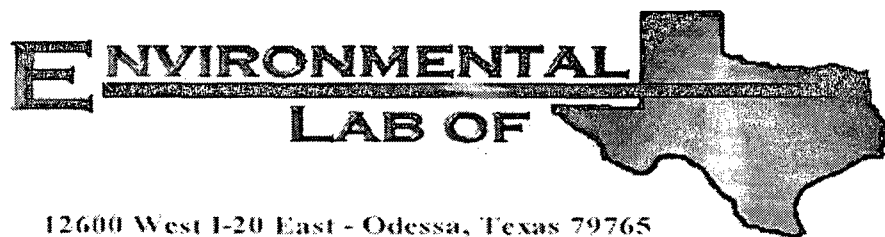
Temperature of container/cooler?	Yes	No	-2.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain 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:



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: Vacuum F-35 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6D27015

Report Date: 05/04/06

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/04/06 14:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6D27015-01	Water	04/25/06 11:25	04/27/06 10:30

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/04/06 14:08

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D27015-01) Water									
Benzene	0.227	0.00100	mg/L	1	ED62807	04/28/06	05/01/06	EPA 8021B	
Toluene	0.0956	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.174	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.136	0.00100	"	"	"	"	"	"	
Xylene (o)	0.0254	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		120 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	80-120		"	"	"	"	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/04/06 14:08

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D27015-01) Water									
Total Alkalinity	446	2.00	mg/L	1	EE60301	05/03/06	05/03/06	EPA 310.1M	
Chloride	1420	25.0	"	50	EE60116	05/01/06	05/01/06	EPA 300.0	
Total Dissolved Solids	3040	5.00	"	1	EE60115	04/27/06	04/28/06	EPA 160.1	
Sulfate	62.5	25.0	"	50	EE60116	05/01/06	05/01/06	EPA 300.0	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/04/06 14:08

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D27015-01) Water									
Calcium	122	0.500	mg/L	50	ED62719	04/27/06	04/27/06	EPA 6010B	
Magnesium	36.0	0.0100	"	10	"	"	"	"	
Potassium	5.87	0.500	"	"	"	"	"	"	
Sodium	916	5.00	"	500	"	"	"	"	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/04/06 14:08

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 ED62807 - EPA 5030C (GC)

Blank (ED62807-BLK1)

Prepared: 04/28/06 Analyzed: 04/30/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	42.2		"	40.0		106	80-120			

LCS (ED62807-BS1)

Prepared: 04/28/06 Analyzed: 04/30/06

Benzene	0.0599	0.00100	mg/L	0.0500		120	80-120			
Toluene	0.0580	0.00100	"	0.0500		116	80-120			
Ethylbenzene	0.0551	0.00100	"	0.0500		110	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100		120	80-120			
Xylene (o)	0.0596	0.00100	"	0.0500		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.0		ug/l	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	42.2		"	40.0		106	80-120			

Calibration Check (ED62807-CCV1)

Prepared: 04/28/06 Analyzed: 05/01/06

Benzene	55.0		ug/l	50.0		110	80-120			
Toluene	53.0		"	50.0		106	80-120			
Ethylbenzene	55.9		"	50.0		112	80-120			
Xylene (p/m)	110		"	100		110	80-120			
Xylene (o)	55.9		"	50.0		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.0		"	40.0		97.5	80-120			
Surrogate: 4-Bromofluorobenzene	39.1		"	40.0		97.8	80-120			

Matrix Spike (ED62807-MS1)

Source: 6D27008-01

Prepared: 04/28/06 Analyzed: 05/01/06

Benzene	0.0576	0.00100	mg/L	0.0500	ND	115	80-120			
Toluene	0.0568	0.00100	"	0.0500	ND	114	80-120			
Ethylbenzene	0.0587	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120			
Xylene (o)	0.0600	0.00100	"	0.0500	ND	120	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	47.5		"	40.0		119	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: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/04/06 14:08

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 ED62807 - EPA 5030C (GC)										
Matrix Spike Dup (ED62807-MSD1)		Source: 6D27008-01		Prepared: 04/28/06 Analyzed: 05/01/06						
Benzene	0.0597	0.00100	mg/L	0.0500	ND	119	80-120	3.42	20	
Toluene	0.0579	0.00100	"	0.0500	ND	116	80-120	1.74	20	
Ethylbenzene	0.0585	0.00100	"	0.0500	ND	117	80-120	0.00	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	0.00	20	
Xylene (o)	0.0598	0.00100	"	0.0500	ND	120	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	43.5		ug/l	40.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	46.4		"	40.0		116	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/04/06 14:08

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EE60115 - General Preparation (WetChem)

Blank (EE60115-BLK1) Prepared: 04/27/06 Analyzed: 04/28/06

Total Dissolved Solids	ND	5.00	mg/L						
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Duplicate (EE60115-DUP1) Source: 6D27015-01 Prepared: 04/27/06 Analyzed: 04/28/06

Total Dissolved Solids	3020	5.00	mg/L		3040		0.660	5	
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Batch EE60116 - General Preparation (WetChem)

Blank (EE60116-BLK1) Prepared & Analyzed: 05/01/06

Chloride	ND	0.500	mg/L						
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Sulfate	ND	0.500	"						
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LCS (EE60116-BS1) Prepared & Analyzed: 05/01/06

Sulfate	9.47	0.500	mg/L	10.0		94.7	80-120		
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Chloride	9.71	0.500	"	10.0		97.1	80-120		
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Calibration Check (EE60116-CCV1) Prepared & Analyzed: 05/01/06

Chloride	9.86		mg/L	10.0		98.6	80-120		
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Sulfate	8.11		"	10.0		81.1	80-120		
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Duplicate (EE60116-DUP1) Source: 6D27008-01 Prepared & Analyzed: 05/01/06

Sulfate	80.0	2.50	mg/L		79.2		1.01	20	
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Chloride	49.3	2.50	"		49.0		0.610	20	
----------	------	------	---	--	------	--	-------	----	--

Batch EE60301 - General Preparation (WetChem)

Blank (EE60301-BLK1) Prepared & Analyzed: 05/03/06

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/04/06 14:08

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 EE60301 - General Preparation (WetChem)										
LCS (EE60301-BS1)				Prepared & Analyzed: 05/03/06						
Bicarbonate Alkalinity	214		mg/L	200		107	85-115			
Duplicate (EE60301-DUP1)				Source: 6D26006-01 Prepared & Analyzed: 05/03/06						
Total Alkalinity	29.0	2.00	mg/L		28.0			3.51	20	
Reference (EE60301-SRM1)				Prepared & Analyzed: 05/03/06						
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Environmental Lab of Texas

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Page 8 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/04/06 14:08

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 ED62719 - 6010B/No Digestion

Blank (ED62719-BLK1)

Prepared & Analyzed: 04/27/06

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

Calibration Check (ED62719-CCV1)

Prepared & Analyzed: 04/27/06

Calcium	2.08		mg/L				85-115			
Magnesium	2.16		"				85-115			
Potassium	1.94		"				85-115			
Sodium	1.96		"				85-115			

Duplicate (ED62719-DUP1)

Source: 6D26006-01

Prepared & Analyzed: 04/27/06

Calcium	0.0366	0.0100	mg/L		0.0367			0.273	20	
Magnesium	ND	0.00100	"		ND				20	
Potassium	0.275	0.0500	"		0.275			0.00	20	
Sodium	13.0	0.100	"		12.1			7.17	20	

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 9 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/04/06 14:08

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:

Raland K. Tuttle

Date:

5/4/2006

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

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

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Environmental Lab of Texas

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

Page 10 of 10

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com

Project Name: Vacuum F-35 SWD

Company Name RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

註

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valornet.com

[illegible]

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

ent: Rice Op.

ate/Time: 4/27/00 10:30

der #: 6027015

tials: OK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	<u>210</u>	C
Shipping container/cooler in good condition?	<u>Yes</u>	No		
Study Seals intact on shipping container/cooler?	<u>Yes</u>	No	Not present	
Study 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		
Observations 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		
Samples received within sufficient hold time?	<u>Yes</u>	No		
QC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken:

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page: / of

ANALYSIS REQUEST

Company Name:	Rae Operating Company		
Project Manager:	Kristin Fellers-Rope		
Address:	132 W Taylor Street		
City:	Abbeys	State:	IN Zip: 88 240
Phone #:	(505) 393-9174		
Fax #:	(505) 397-1471		
Project #:	Project Owner:		
Project Name:	Vacuum F-35 SWD		
Project Location:	Lea County		

[illegible]

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

[illegible]

Phone Result ☐ Yes ☐ No Additional Fax #:

Fax Result: ☐ Yes ☐ No

REMARKS: Please Email Results to:

K.pope@rice.edu.com
mfranks@rice.edu.com
cozanne@valdnet.com

Received By: (Lab Stain)

Sample Condition: Good Checked By: Burke (Initials)

Delivered By: (Circle One)

Sampler - Ups - Bus - Other:

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



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 06/06/06
Reporting Date: 06/07/06
Project Number: NOT GIVEN
Project Name: VACUUM F-35 SWD
Project Location: LEA COUNTY, NM

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

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
------------	-----------	--------------	--------------	--------------	-------------	-------------------------------	--

ANALYSIS DATE:	06/07/06	06/07/06	06/07/06	06/07/06	06/06/06	06/07/06
H11193-1 MONITOR WELL #2	20	128	29	3.81	989	240
Quality Control	NR	48.0	48.6	3.82	1425	NR
True Value QC	NR	50.0	50	4.00	1413	NR
% Recovery	NR	96	97	96	101	NR
Relative Percent Difference	NR	0.0	0.0	1.8	0.07	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
---------------------------	---------------------------	---------------------------	----------------------------	--------------	---------------

ANALYSIS DATE:	06/07/06	06/07/06	06/07/06	06/07/06	06/06/06	06/07/06
H11193-1 MONITOR WELL #2	104	96	0	293	7.20	652
Quality Control	970	27.5	NR	976	7.01	NR
True Value QC	1000	25.0	NR	1000	7.00	NR
% Recovery	97	110	NR	98	100	NR
Relative Percent Difference	1	2.9	NR	0	0.1	

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

[Signature]
Chemist

06-08-06
Date

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



ARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

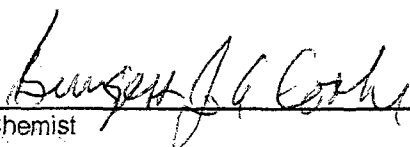
ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 06/06/06
Reporting Date: 06/07/06
Project Number: NOT GIVEN
Project Name: VACUUM F-35 SWD
Project Location: LEA COUNTY, NM

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

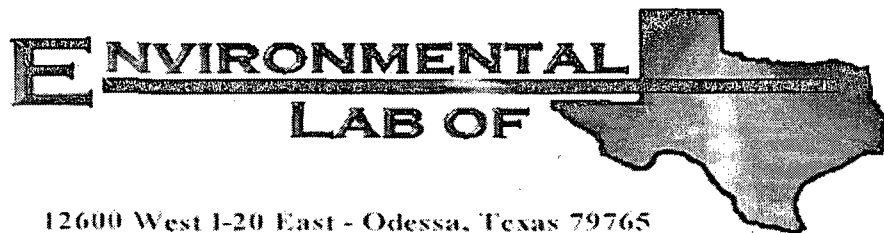
LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		06/06/06	06/06/06	06/06/06	06/06/06
H11193-1	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
Quality Control		0.102	0.102	0.099	0.304
True Value QC		0.100	0.100	0.100	0.300
% Recovery		102	102	98.9	101
Relative Percent Difference		1.8	1.7	1.1	1.2

METHOD: EPA SW-846 8260


Chemist

6/7/06
Date

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



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: Vacuum F-35 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6F06020

Report Date: 06/23/06

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #2	6F06020-01	Water	06/06/06 07:00	06/06/06 15:40

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6F06020-01) 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	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.0 %	80-120		"	"	"	"	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6F06020-01) Water									
Total Alkalinity	286	2.00	mg/L	1	EF60916	06/09/06	06/09/06	EPA 310.1M	
Chloride	97.6	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	
Total Dissolved Solids	724	5.00	"	1	EF60810	06/07/06	06/07/06	EPA 160.1	
Sulfate	63.3	5.00	"	10	EF60811	06/08/06	06/08/06	EPA 300.0	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #2 (6F06020-01) Water									
Calcium	92.8	0.100	mg/L	10	EF60804	06/08/06	06/08/06	EPA 6010B	
Magnesium	19.7	0.0100	"	"	"	"	"	"	
Potassium	3.24	0.500	"	"	"	"	"	"	
Sodium	36.2	0.100	"	"	"	"	"	"	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

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

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: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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					
Chloride	2030	50.0	mg/L		2150			5.74	20	
Sulfate	278	50.0	"		282			1.43	20	

Environmental Lab of Texas

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Page 7 of 10

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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						
Chloride	3330	50.0	mg/L	1000	2150	118	80-120			
Sulfate	923	50.0	"	1000	282	64.1	75-125			QS-1
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			

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

Project: Vacuum F-35 SWD
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	

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

Project: Vacuum F-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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:

6/23/2006

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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Odessa, Texas 79765
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Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com

Project Name: Vacuum F-35 SWD

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

Email: rozanne@valornet.com

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice DP

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

Order #: 6F06020

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/>	No	Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/>	No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/>	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/>	No		
Container labels legible and intact?	<input checked="" type="checkbox"/>	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	No		
Samples properly preserved?	<input checked="" type="checkbox"/>	No		
Sample bottles intact?	<input checked="" type="checkbox"/>	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/>	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable	

Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken:



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail lab@traceanalysis.com

Analytical and Quality Control Report

Kristin Farris-Pope
Rice Operating Company
122 W Taylor Street
Hobbs, NM, 88240

Report Date: August 24, 2006

Work Order: 6080430



Project Location: Lea County, NM
Project Name: Vacuum F-35 SWD
Project Number: Vacuum F-35 SWD

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
98076	Monitor Well #1	water	2006-08-02	12:00	2006-08-04
98077	Monitor Well #2	water	2006-08-02	13:40	2006-08-04

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 98076 - Monitor Well #1

Analysis: Alkalinity Analytical Method: SM 2320B Prep Method: N/A
QC Batch: 28900 Date Analyzed: 2006-08-10 Analyzed By: LJ
Prep Batch: 25245 Sample Preparation: 2006-08-10 Prepared By: LJ

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		632	mg/L as CaCo3	1	4.00
Total Alkalinity		632	mg/L as CaCo3	1	4.00

Sample: 98076 - Monitor Well #1

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 28800 Date Analyzed: 2006-08-08 Analyzed By: MT
Prep Batch: 25183 Sample Preparation: 2006-08-08 Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.349	mg/L	1	0.00100
Toluene		0.108	mg/L	1	0.00100
Ethylbenzene		0.213	mg/L	1	0.00100
Xylene		0.201	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0997	mg/L	1	0.100	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.113	mg/L	1	0.100	113	70 - 130

Sample: 98076 - Monitor Well #1

Analysis: Cations Analytical Method: S 6010B Prep Method: S 3005A
QC Batch: 28886 Date Analyzed: 2006-08-10 Analyzed By: TP
Prep Batch: 25206 Sample Preparation: 2006-08-09 Prepared By: TS

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		178	mg/L	10	0.500
Dissolved Potassium		14.2	mg/L	1	1.00
Dissolved Magnesium		55.3	mg/L	1	1.00
Dissolved Sodium		1010	mg/L	100	1.00

Sample: 98076 - Monitor Well #1

Analysis: Ion Chromatography Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 28875 Date Analyzed: 2006-08-08 Analyzed By: WB
Prep Batch: 25189 Sample Preparation: 2006-08-07 Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1810	mg/L	100	0.500
Sulfate		17.0	mg/L	10	0.500

Sample: 98076 - Monitor Well #1

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 28836	Date Analyzed: 2006-08-09	Analyzed By: SM
Prep Batch: 25194	Sample Preparation: 2009-08-08	Prepared By: SM

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		2680	mg/L	5	10.00

Sample: 98077 - Monitor Well #2

Analysis: Alkalinity	Analytical Method: SM 2320B	Prep Method: N/A
QC Batch: 28900	Date Analyzed: 2006-08-10	Analyzed By: LJ
Prep Batch: 25245	Sample Preparation: 2006-08-10	Prepared By: LJ

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		336	mg/L as CaCo3	1	4.00
Total Alkalinity		336	mg/L as CaCo3	1	4.00

Sample: 98077 - Monitor Well #2

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5030B
QC Batch: 28800	Date Analyzed: 2006-08-08	Analyzed By: MT
Prep Batch: 25183	Sample Preparation: 2006-08-08	Prepared By: MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.0924	mg/L	1	0.100	92	70 - 130

Sample: 98077 - Monitor Well #2

Analysis: Cations	Analytical Method: S 6010B	Prep Method: S 3005A
QC Batch: 28886	Date Analyzed: 2006-08-10	Analyzed By: TP
Prep Batch: 25206	Sample Preparation: 2006-08-09	Prepared By: TS

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		137	mg/L	10	0.500
Dissolved Potassium		5.26	mg/L	1	1.00
Dissolved Magnesium		17.3	mg/L	1	1.00
Dissolved Sodium		35.9	mg/L	1	1.00

Sample: 98077 - Monitor Well #2

Analysis: Ion Chromatography	Analytical Method: E 300.0	Prep Method: N/A
QC Batch: 28875	Date Analyzed: 2006-08-08	Analyzed By: WB
Prep Batch: 25189	Sample Preparation: 2006-08-07	Prepared By: WB

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		96.0	mg/L	5	0.500
Sulfate		66.0	mg/L	5	0.500

Sample: 98077 - Monitor Well #2

Analysis: TDS	Analytical Method: SM 2540C	Prep Method: N/A
QC Batch: 28836	Date Analyzed: 2006-08-09	Analyzed By: SM
Prep Batch: 25194	Sample Preparation: 2009-08-08	Prepared By: SM

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		723.0	mg/L	1	10.00

Method Blank (1) QC Batch: 28800

QC Batch: 28800	Date Analyzed: 2006-08-08	Analyzed By: MT
Prep Batch: 25183	QC Preparation: 2006-08-08	Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000305	mg/L	0.001
Toluene		<0.000497	mg/L	0.001
Ethylbenzene		<0.000294	mg/L	0.001
Xylene		<0.000348	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0996	mg/L	1	0.100	100	81.4 - 109

continued...

method blank continued...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.0904	mg/L	1	0.100	90	57.1 - 113

Method Blank (1) QC Batch: 28836

QC Batch: 28836
Prep Batch: 25194

Date Analyzed: 2006-08-09
QC Preparation: 2006-08-08

Analyzed By: SM
Prepared By: SM

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 28875

QC Batch: 28875
Prep Batch: 25189

Date Analyzed: 2006-08-08
QC Preparation: 2006-08-07

Analyzed By: WB
Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5
Sulfate		<0.0485	mg/L	0.5

Method Blank (1) QC Batch: 28886

QC Batch: 28886
Prep Batch: 25206

Date Analyzed: 2006-08-10
QC Preparation: 2006-08-09

Analyzed By: TP
Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Dissolved Calcium		<0.0950	mg/L	0.5
Dissolved Potassium		<0.377	mg/L	1
Dissolved Magnesium		<0.704	mg/L	1
Dissolved Sodium		<0.261	mg/L	1

Method Blank (1) QC Batch: 28900

QC Batch: 28900
Prep Batch: 25245

Date Analyzed: 2006-08-10
QC Preparation: 2006-08-10

Analyzed By: LJ
Prepared By: LJ

Parameter	Flag	MDL Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Duplicates (1)

QC Batch: 28836
Prep Batch: 25194

Date Analyzed: 2006-08-09
QC Preparation: 2006-08-08

Analyzed By: SM
Prepared By: SM

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	748.0	636.0	mg/L	1	16	17.2

Duplicates (1)

QC Batch: 28900
Prep Batch: 25245

Date Analyzed: 2006-08-10
QC Preparation: 2006-08-10

Analyzed By: LJ
Prepared By: LJ

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	160	156	mg/L as CaCo3	1	2	12.6
Total Alkalinity	160	156	mg/L as CaCo3	1	2	11.5

Laboratory Control Spike (LCS-1)

QC Batch: 28800
Prep Batch: 25183

Date Analyzed: 2006-08-08
QC Preparation: 2006-08-08

Analyzed By: MT
Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0995	mg/L	1	0.100	<0.000305	100	80 - 120
Toluene	0.0981	mg/L	1	0.100	<0.000497	98	80 - 120
Ethylbenzene	0.0990	mg/L	1	0.100	<0.000294	99	80 - 120
Xylene	0.291	mg/L	1	0.300	<0.000348	97	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.000305	100	80 - 120	2	20
Toluene	0.101	mg/L	1	0.100	<0.000497	98	80 - 120	3	20
Ethylbenzene	0.102	mg/L	1	0.100	<0.000294	99	80 - 120	3	20
Xylene	0.299	mg/L	1	0.300	<0.000348	97	80 - 120	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.102	0.100	mg/L	1	0.100	102	100	80 - 120
4-Bromofluorobenzene (4-BFB)	0.102	0.104	mg/L	1	0.100	102	104	80 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 28875
Prep Batch: 25189

Date Analyzed: 2006-08-08
QC Preparation: 2006-08-07

Analyzed By: WB
Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	11.2	mg/L	1	12.5	<0.0181	90	90 - 110
Sulfate	11.3	mg/L	1	12.5	<0.0485	90	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	11.6	mg/L	1	12.5	<0.0181	90	90 - 110	4	20
Sulfate	11.5	mg/L	1	12.5	<0.0485	90	90 - 110	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 28886
Prep Batch: 25206

Date Analyzed: 2006-08-10
QC Preparation: 2006-08-09

Analyzed By: TP
Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	54.1	mg/L	1	50.0	<0.0950	108	85 - 115
Dissolved Potassium	54.1	mg/L	1	50.0	<0.377	108	85 - 113
Dissolved Magnesium	52.3	mg/L	1	50.0	<0.704	105	85 - 113
Dissolved Sodium	53.5	mg/L	1	50.0	<0.261	107	85 - 111

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	52.8	mg/L	1	50.0	<0.0950	108	85 - 115	2	20
Dissolved Potassium	50.8	mg/L	1	50.0	<0.377	108	85 - 113	6	20
Dissolved Magnesium	50.2	mg/L	1	50.0	<0.704	105	85 - 113	4	20
Dissolved Sodium	52.6	mg/L	1	50.0	<0.261	107	85 - 111	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 97754

QC Batch: 28800
Prep Batch: 25183

Date Analyzed: 2006-08-08
QC Preparation: 2006-08-08

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000305	102	80.8 - 117
Toluene	0.101	mg/L	1	0.100	<0.000497	101	85 - 113
Ethylbenzene	0.101	mg/L	1	0.100	<0.000294	101	80.5 - 112
Xylene	0.295	mg/L	1	0.300	<0.000348	98	83.8 - 109

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1	NA	mg/L	1	0.100	<0.000305	0	80.8 - 117	200	20
Toluene	2	NA	mg/L	1	0.100	<0.000497	0	85 - 113	200	20
Ethylbenzene	3	NA	mg/L	1	0.100	<0.000294	0	80.5 - 112	200	20
Xylene	4	NA	mg/L	1	0.300	<0.000348	0	83.8 - 109	200	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	5	0.101	NA	mg/L	1	0.1	101	0	85 - 114
4-Bromofluorobenzene (4-BFB)	6	0.106	NA	mg/L	1	0.1	106	0	90.8 - 120

Matrix Spike (MS-1) Spiked Sample: 98079

QC Batch: 28875
Prep Batch: 25189

Date Analyzed: 2006-08-08
QC Preparation: 2006-08-07

Analyzed By: WB
Prepared By: WB

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		2400	mg/L	100	12.5	1160	99	25.4 - 171
Sulfate		1210	mg/L	100	12.5	24.9	95	0 - 677

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		2430	mg/L	100	12.5	1160	102	25.4 - 171	1	20
Sulfate		1230	mg/L	100	12.5	24.9	96	0 - 677	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 98074

QC Batch: 28886
Prep Batch: 25206

Date Analyzed: 2006-08-10
QC Preparation: 2006-08-09

Analyzed By: TP
Prepared By: TS

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium		133	mg/L	1	50.0	96.3	73	68.4 - 138
Dissolved Potassium		65.0	mg/L	1	50.0	10.8	108	82 - 129
Dissolved Magnesium		85.2	mg/L	1	50.0	49.3	72	61.2 - 135
Dissolved Sodium	7	201	mg/L	10	50.0	167	7	81.8 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

¹RPD is out of range because a matrix spike duplicate was not prepared.

²RPD is out of range because a matrix spike duplicate was not prepared.

³RPD is out of range because a matrix spike duplicate was not prepared.

⁴RPD is out of range because a matrix spike duplicate was not prepared.

⁵RPD is out of range because a matrix spike duplicate was not prepared.

⁶RPD is out of range because a matrix spike duplicate was not prepared.

⁷Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	146	mg/L	1	50.0	96.3	99	68.4 - 138	9	20
Dissolved Potassium	70.5	mg/L	1	50.0	10.8	119	82 - 129	8	20
Dissolved Magnesium	95.6	mg/L	1	50.0	49.3	93	61.2 - 135	12	20
Dissolved Sodium	⁸ 223	mg/L	10	50.0	167	11	81.8 - 125	10	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28800

Date Analyzed: 2006-08-08

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0995	100	85 - 115	2006-08-08
Toluene		mg/L	0.100	0.0969	97	85 - 115	2006-08-08
Ethylbenzene		mg/L	0.100	0.0967	97	85 - 115	2006-08-08
Xylene		mg/L	0.300	0.284	95	85 - 115	2006-08-08

Standard (CCV-1)

QC Batch: 28800

Date Analyzed: 2006-08-08

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0974	97	85 - 115	2006-08-08
Toluene		mg/L	0.100	0.0964	96	85 - 115	2006-08-08
Ethylbenzene		mg/L	0.100	0.0970	97	85 - 115	2006-08-08
Xylene		mg/L	0.300	0.285	95	85 - 115	2006-08-08

Standard (ICV-1)

QC Batch: 28836

Date Analyzed: 2006-08-09

Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1026	103	90 - 110	2006-08-09

Standard (CCV-1)

QC Batch: 28836

Date Analyzed: 2006-08-09

Analyzed By: SM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1001	100	90 - 110	2006-08-09

⁸Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Standard (ICV-1)

QC Batch: 28875

Date Analyzed: 2006-08-08

Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2006-08-08
Sulfate		mg/L	12.5	11.5	92	90 - 110	2006-08-08

Standard (CCV-1)

QC Batch: 28875

Date Analyzed: 2006-08-08

Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.4	91	90 - 110	2006-08-08
Sulfate		mg/L	12.5	11.3	90	90 - 110	2006-08-08

Standard (ICV-1)

QC Batch: 28886

Date Analyzed: 2006-08-10

Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	49.9	100	90 - 110	2006-08-10
Dissolved Potassium		mg/L	50.0	51.5	103	90 - 110	2006-08-10
Dissolved Magnesium		mg/L	50.0	51.0	102	90 - 110	2006-08-10
Dissolved Sodium		mg/L	50.0	53.1	106	90 - 110	2006-08-10

Standard (CCV-1)

QC Batch: 28886

Date Analyzed: 2006-08-10

Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	52.9	106	90 - 110	2006-08-10
Dissolved Potassium		mg/L	50.0	53.0	106	90 - 110	2006-08-10
Dissolved Magnesium		mg/L	50.0	48.2	96	90 - 110	2006-08-10
Dissolved Sodium		mg/L	50.0	52.7	105	90 - 110	2006-08-10

Standard (ICV-1)

QC Batch: 28900

Date Analyzed: 2006-08-10

Analyzed By: LJ

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	250	100	90 - 110	2006-08-10

Report Date: August 24, 2006
Vacuum F-35 SWD

Work Order: 6080430
Vacuum F-35 SWD

Page Number: 11 of 13
Lea County,NM

Standard (CCV-1)

QC Batch: 28900

Date Analyzed: 2006-08-10

Analyzed By: LJ

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	248	99	90 - 110	2006-08-10

155 McCutcheon Way, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944

LAB Order ID # 6080430

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 6080430

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

REMARKS: Please email results to:

knonne@riseswd.com

mfranks@riceswd.com

www.alacant.com

100

special reporting limits needed

2001

7101-776

Cation-Anion Balance Sheet

DATE: 8/24/2006

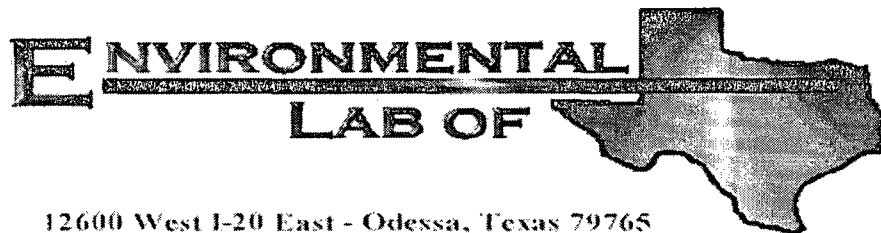
Sample #	Calcium ppm	Magnesium ppm	Sodium ppm	Potassium ppm	Alkalinity ppm	Sulfate ppm	Chloride ppm	Nitrate ppm	Fluoride ppm	Bromide ppm	TDS ppm	EC µMHOs/cm
98076	178	55.3	1010	14.2	632	17	1810				2680	
98077	137	17.3	35.9	5.26	336	66	96				723	

Sample #	Calcium In meq/L	Magnesium In meq/L	Sodium In meq/L	Potassium In meq/L	Alkalinity In meq/L	Sulfate In meq/L	Chloride In meq/L	Nitrate In meq/L	Fluoride In meq/L	Bromide In meq/L	Cations In meq/L	Anions In meq/L	Percentage Error
98076	8.88	4.55	43.94	0.36	12.64	0.35	51.06	0	0	0	57.73	64.05	10.38380939
98077	6.84	1.42	1.56	0.13	6.72	1.37	2.71	0	0	0	9.96	10.80	8.152480824

EC/Cation	EC/Anion
5773.1073	6405.404
995.61178	1080.228

TDS/EC	TDS/Cat	TDS/Anion
#DIV/0!	0.46	0.42
#DIV/0!	0.73	0.67

range 0 to 0
range 0 to 0



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: Vacuum G-35/ F-35 Site

Project Number: None Given

Location: T17S- R35E- Sec 35 F/G, Lea County, NM

Lab Order Number: 6J27015

Report Date: 11/10/06

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

Project: Vacuum G-35/ F-35 Site
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F-35 SWD Monitor Well #1	6J27015-01	Water	10/24/06 14:40	10-27-2006 14:45
F-35 SWD Monitor Well #2	6J27015-02	Water	10/24/06 15:45	10-27-2006 14:45
G-35 SWD Monitor Well #1	6J27015-03	Water	10/25/06 16:10	10-27-2006 14:45
G-35 SWD Monitor Well #2	6J27015-04	Water	10/25/06 09:45	10-27-2006 14:45

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

Project: Vacuum G-35/ F-35 Site
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
F-35 SWD Monitor Well #1 (6J27015-01) Water									
Benzene	0.462	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.489	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.230	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.305	0.00100	"	"	"	"	"	"	
Xylene (o)	0.135	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		138 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	
F-35 SWD Monitor Well #2 (6J27015-02) Water									
Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	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		87.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	
G-35 SWD Monitor Well #1 (6J27015-03) Water									
Benzene	0.394	0.00500	mg/L	5	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.0204	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0774	0.00500	"	"	"	"	"	"	
Xylene (p/m)	0.0177	0.00500	"	"	"	"	"	"	
Xylene (o)	0.0261	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-120		"	"	"	"	
G-35 SWD Monitor Well #2 (6J27015-04) Water									
Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	11/01/06	EPA 8021B	
Toluene	0.00308	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	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 2 of 10

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

Project: Vacuum G-35/ F-35 Site
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
F-35 SWD Monitor Well #1 (6J27015-01) Water									
Total Alkalinity	432	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1460	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	3190	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	45.2	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
F-35 SWD Monitor Well #2 (6J27015-02) Water									
Total Alkalinity	314	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	89.1	5.00	"	10	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	598	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	67.2	5.00	"	10	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #1 (6J27015-03) Water									
Total Alkalinity	208	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	13.4	2.50	"	5	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	264	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	22.8	2.50	"	5	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #2 (6J27015-04) Water									
Total Alkalinity	476	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1350	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	2800	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	39.7	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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
F-35 SWD Monitor Well #1 (6J27015-01) Water									
Calcium	192	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	49.2	0.360	"	10	"	"	"	"	
Potassium	6.45	0.600	"	"	"	"	"	"	
Sodium	816	10.8	"	250	"	"	"	"	
F-35 SWD Monitor Well #2 (6J27015-02) Water									
Calcium	111	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	17.5	0.360	"	10	"	"	"	"	
Potassium	2.85	0.600	"	"	"	"	"	"	
Sodium	32.8	0.430	"	"	"	"	"	"	
G-35 SWD Monitor Well #1 (6J27015-03) Water									
Calcium	49.2	0.810	mg/L	10	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	8.36	0.360	"	"	"	"	"	"	
Potassium	1.53	0.600	"	"	"	"	"	"	
Sodium	8.18	0.430	"	"	"	"	"	"	
G-35 SWD Monitor Well #2 (6J27015-04) Water									
Calcium	50.9	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	18.3	0.360	"	10	"	"	"	"	
Potassium	9.76	0.600	"	"	"	"	"	"	
Sodium	908	10.8	"	250	"	"	"	"	

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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
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Batch EJ63104 - EPA 5030C (GC)

Blank (EJ63104-BLK1)

Prepared & Analyzed: 10/31/06

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	36.2		ug/l	40.0		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	32.9		"	40.0		82.2	80-120			

LCS (EJ63104-BS1)

Prepared & Analyzed: 10/31/06

Benzene	0.0581	0.00100	mg/L	0.0500		116	80-120			
Toluene	0.0561	0.00100	"	0.0500		112	80-120			
Ethylbenzene	0.0545	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100		118	80-120			
Xylene (o)	0.0512	0.00100	"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0		101	80-120			

Calibration Check (EJ63104-CCV1)

Prepared: 10/31/06 Analyzed: 11/01/06

Benzene	51.6		ug/l	50.0		103	80-120			
Toluene	45.6		"	50.0		91.2	80-120			
Ethylbenzene	46.4		"	50.0		92.8	80-120			
Xylene (p/m)	88.7		"	100		88.7	80-120			
Xylene (o)	40.4		"	50.0		80.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.6		"	40.0		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120			

Matrix Spike (EJ63104-MS1)

Source: 6J23009-02

Prepared: 10/31/06 Analyzed: 11/01/06

Benzene	0.0575	0.00100	mg/L	0.0500	ND	115	80-120			
Toluene	0.0530	0.00100	"	0.0500	ND	106	80-120			
Ethylbenzene	0.0524	0.00100	"	0.0500	ND	105	80-120			
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120			
Xylene (o)	0.0456	0.00100	"	0.0500	ND	91.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.0		"	40.0		108	80-120			

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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
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Batch EJ63104 - EPA 5030C (GC)

Matrix Spike Dup (EJ63104-MSD1)

Source: 6J23009-02

Prepared: 10/31/06 Analyzed: 11/01/06

Benzene	0.0564	0.00100	mg/L	0.0500	ND	113	80-120	1.75	20	
Toluene	0.0524	0.00100	"	0.0500	ND	105	80-120	0.948	20	
Ethylbenzene	0.0532	0.00100	"	0.0500	ND	106	80-120	0.948	20	
Xylene (p/m)	0.105	0.00100	"	0.100	ND	105	80-120	1.89	20	
Xylene (o)	0.0442	0.00100	"	0.0500	ND	88.4	80-120	3.12	20	
Surrogate: o,a,o-Trifluorotoluene	35.8		ug/l	40.0		89.5	80-120			
Surrogate: 4-Bromofluorobenzene	37.7		"	40.0		94.2	80-120			

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

Project: Vacuum G-35/ F-35 Site
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 EJ62702 - General Preparation (WetChem)										
Blank (EJ62702-BLK1)				Prepared & Analyzed: 10/27/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EJ62702-BS1)				Prepared & Analyzed: 10/27/06						
Sulfate	10.8	0.500	mg/L	10.0		108	80-120			
Chloride	10.8	0.500	"	10.0		108	80-120			
Calibration Check (EJ62702-CCV1)				Prepared & Analyzed: 10/27/06						
Sulfate	10.8		mg/L	10.0		108	80-120			
Chloride	11.2		"	10.0		112	80-120			
Duplicate (EJ62702-DUP1)				Source: 6J26011-02		Prepared & Analyzed: 10/27/06				
Sulfate	129	12.5	mg/L		129			0.00	20	
Chloride	643	12.5	"		645			0.311	20	
Duplicate (EJ62702-DUP2)				Source: 6J27017-05		Prepared & Analyzed: 10/27/06				
Sulfate	223	25.0	mg/L		226			1.34	20	
Chloride	1310	25.0	"		1330			1.52	20	
Matrix Spike (EJ62702-MS1)				Source: 6J26011-02		Prepared & Analyzed: 10/27/06				
Sulfate	369	12.5	mg/L	250	129	96.0	80-120			
Chloride	934	12.5	"	250	645	116	80-120			
Matrix Spike (EJ62702-MS2)				Source: 6J27017-05		Prepared & Analyzed: 10/27/06				
Sulfate	716	25.0	mg/L	500	226	98.0	80-120			
Chloride	1930	25.0	"	500	1330	120	80-120			

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

Project: Vacuum G-35/ F-35 Site
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 Limits	RPD	RPD Limit	Notes
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Batch EJ63006 - Filtration Preparation

Blank (EJ63006-BLK1)				Prepared: 10/30/06 Analyzed: 10/31/06					
Total Dissolved Solids	ND	10.0	mg/L						
Duplicate (EJ63006-DUP1)				Source: 6J27015-01 Prepared: 10/30/06 Analyzed: 10/31/06					
Total Dissolved Solids	2860	10.0	mg/L		3190		10.9	5	R2
Duplicate (EJ63006-DUP2)				Source: 6J27017-03 Prepared: 10/30/06 Analyzed: 10/31/06					
Total Dissolved Solids	1590	10.0	mg/L		1910		18.3	5	R2

Batch EJ63107 - General Preparation (WetChem)

Blank (EJ63107-BLK1)				Prepared & Analyzed: 10/31/06					
Total Alkalinity	ND	2.00	mg/L						
LCS (EJ63107-BS1)				Prepared & Analyzed: 10/31/06					
Total Alkalinity	196	2.00	mg/L	200		98.0	85-115		
Duplicate (EJ63107-DUP1)				Source: 6J27015-01 Prepared & Analyzed: 10/31/06					
Total Alkalinity	424	2.00	mg/L		432		1.87	20	
Reference (EJ63107-SRM1)				Prepared & Analyzed: 10/31/06					
Total Alkalinity	254		mg/L	250		102	90-110		

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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
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Batch EK60223 - 6010B/No Digestion

Blank (EK60223-BLK1)

Prepared & Analyzed: 11/02/06

Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							

Calibration Check (EK60223-CCV1)

Prepared & Analyzed: 11/02/06

Calcium	2.22		mg/L	2.00		111	85-115			
Magnesium	2.07		"	2.00		104	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.98		"	2.00		99.0	85-115			

Duplicate (EK60223-DUP1)

Source: 6J27015-01

Prepared & Analyzed: 11/02/06

Calcium	186	4.05	mg/L		192			3.17	20	
Magnesium	49.6	0.360	"		49.2			0.810	20	
Potassium	6.20	0.600	"		6.45			3.95	20	
Sodium	801	10.8	"		816			1.86	20	

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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.
R2 The RPD exceeded the acceptance limit.
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: 11/10/2006

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

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

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

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

Environmental Lab of Texas

12600 West 120 East
Odessa, Texas 79765

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farrie Pope kpope@riceswd.com

Project Name:

Vacuum F-35 SWD and G-35 SWD

Company Name RICE Operating Company

Project Number:

T17S-R35E-See 35 F/G Lea County NM

Company Address: 122 W. Taylor Street

ProQuest

City/State/Zip: Hobbs, New Mexico 88240

PO Number:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valornet.com

[illegible]

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

Client: Rice Op.
Date/ Time: 10/27/00 2:45
Lab ID #: 6327015
Initials: OK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	15 °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: _____

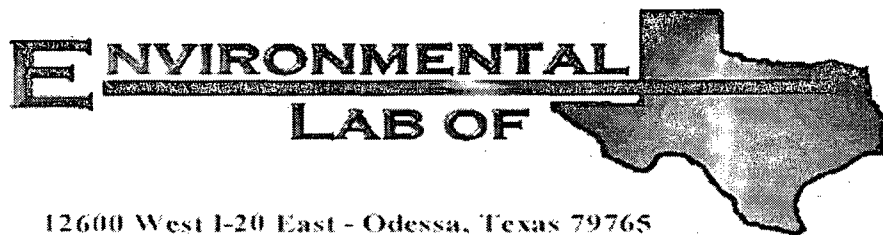
Corrective Action Taken: _____

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



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: Vacuum G-35/ F-35 Site

Project Number: None Given

Location: T17S- R35E- Sec 35 F/G, Lea County, NM

Lab Order Number: 6J27015

Report Date: 12/01/06

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

Project: Vacuum G-35/ F-35 Site
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F-35 SWD Monitor Well #1	6J27015-01	Water	10/24/06 14:40	10-27-2006 14:45
F-35 SWD Monitor Well #2	6J27015-02	Water	10/24/06 15:45	10-27-2006 14:45
G-35 SWD Monitor Well #1	6J27015-03	Water	10/25/06 16:10	10-27-2006 14:45
G-35 SWD Monitor Well #2	6J27015-04	Water	10/25/06 09:45	10-27-2006 14:45

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

Project: Vacuum G-35/ F-35 Site
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
F-35 SWD Monitor Well #1 (6J27015-01) Water									
Benzene	0.462	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.489	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.230	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.305	0.00100	"	"	"	"	"	"	
Xylene (o)	0.135	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		138 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	80-120		"	"	"	"	

F-35 SWD Monitor Well #2 (6J27015-02) Water

Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		87.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.5 %	80-120		"	"	"	"	

G-35 SWD Monitor Well #1 (6J27015-03) Water

Benzene	0.394	0.00500	mg/L	5	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.0204	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0774	0.00500	"	"	"	"	"	"	
Xylene (p/m)	0.0177	0.00500	"	"	"	"	"	"	
Xylene (o)	0.0261	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.8 %	80-120		"	"	"	"	

G-35 SWD Monitor Well #2 (6J27015-04) Water

Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	11/01/06	EPA 8021B	
Toluene	0.00308	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: Vacuum G-35/ F-35 Site
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
F-35 SWD Monitor Well #1 (6J27015-01) Water									
Total Alkalinity	432	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1460	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	3190	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	45.2	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
F-35 SWD Monitor Well #2 (6J27015-02) Water									
Total Alkalinity	314	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	89.1	5.00	"	10	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	598	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	67.2	5.00	"	10	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #1 (6J27015-03) Water									
Total Alkalinity	476	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1350	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	2800	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	39.7	25.0	"	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
G-35 SWD Monitor Well #2 (6J27015-04) Water									
Total Alkalinity	208	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	13.4	2.50	"	5	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	264	10.0	"	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	22.8	2.50	"	5	EJ62702	10/27/06	10/27/06	EPA 300.0	

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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
F-35 SWD Monitor Well #1 (6J27015-01) Water									
Calcium	192	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	49.2	0.360	"	10	"	"	"	"	
Potassium	6.45	0.600	"	"	"	"	"	"	
Sodium	816	10.8	"	250	"	"	"	"	
F-35 SWD Monitor Well #2 (6J27015-02) Water									
Calcium	111	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	17.5	0.360	"	10	"	"	"	"	
Potassium	2.85	0.600	"	"	"	"	"	"	
Sodium	32.8	0.430	"	"	"	"	"	"	
G-35 SWD Monitor Well #1 (6J27015-03) Water									
Calcium	50.9	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	18.3	0.360	"	10	"	"	"	"	
Potassium	9.76	0.600	"	"	"	"	"	"	
Sodium	908	10.8	"	250	"	"	"	"	
G-35 SWD Monitor Well #2 (6J27015-04) Water									
Calcium	49.2	0.810	mg/L	10	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	8.36	0.360	"	"	"	"	"	"	
Potassium	1.53	0.600	"	"	"	"	"	"	
Sodium	8.18	0.430	"	"	"	"	"	"	

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

Project: Vacuum G-35/ F-35 Site
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 EJ63104 - EPA 5030C (GC)										
Blank (EJ63104-BLK1)										
Prepared & Analyzed: 10/31/06										
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	36.2		ug/l	40.0		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	32.9		"	40.0		82.2	80-120			
LCS (EJ63104-BS1)										
Prepared & Analyzed: 10/31/06										
Benzene	0.0581	0.00100	mg/L	0.0500		116	80-120			
Toluene	0.0561	0.00100	"	0.0500		112	80-120			
Ethylbenzene	0.0545	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100		118	80-120			
Xylene (o)	0.0512	0.00100	"	0.0500		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0		101	80-120			
Calibration Check (EJ63104-CCV1)										
Prepared: 10/31/06 Analyzed: 11/01/06										
Benzene	51.6		ug/l	50.0		103	80-120			
Toluene	45.6		"	50.0		91.2	80-120			
Ethylbenzene	46.4		"	50.0		92.8	80-120			
Xylene (p/m)	88.7		"	100		88.7	80-120			
Xylene (o)	40.4		"	50.0		80.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.6		"	40.0		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120			
Matrix Spike (EJ63104-MS1)										
Source: 6J23009-02 Prepared: 10/31/06 Analyzed: 11/01/06										
Benzene	0.0575	0.00100	mg/L	0.0500	ND	115	80-120			
Toluene	0.0530	0.00100	"	0.0500	ND	106	80-120			
Ethylbenzene	0.0524	0.00100	"	0.0500	ND	105	80-120			
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120			
Xylene (o)	0.0456	0.00100	"	0.0500	ND	91.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.0		"	40.0		108	80-120			

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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 EJ63104 - EPA 5030C (GC)										
Matrix Spike Dup (EJ63104-MSD1)		Source: 6J23009-02		Prepared: 10/31/06 Analyzed: 11/01/06						
Benzene	0.0564	0.00100	mg/L	0.0500	ND	113	80-120	1.75	20	
Toluene	0.0524	0.00100	"	0.0500	ND	105	80-120	0.948	20	
Ethylbenzene	0.0532	0.00100	"	0.0500	ND	106	80-120	0.948	20	
Xylene (p/m)	0.105	0.00100	"	0.100	ND	105	80-120	1.89	20	
Xylene (o)	0.0442	0.00100	"	0.0500	ND	88.4	80-120	3.12	20	
Surrogate: a,a,a-Trifluorotoluene	35.8		ug/l	40.0		89.5	80-120			
Surrogate: 4-Bromofluorobenzene	37.7		"	40.0		94.2	80-120			

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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 EJ62702 - General Preparation (WetChem)										
Blank (EJ62702-BLK1)			Prepared & Analyzed: 10/27/06							
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EJ62702-BS1)			Prepared & Analyzed: 10/27/06							
Sulfate	10.8	0.500	mg/L	10.0		108	80-120			
Chloride	10.8	0.500	"	10.0		108	80-120			
Calibration Check (EJ62702-CCV1)			Prepared & Analyzed: 10/27/06							
Sulfate	10.8		mg/L	10.0		108	80-120			
Chloride	11.2		"	10.0		112	80-120			
Duplicate (EJ62702-DUP1)			Source: 6J26011-02	Prepared & Analyzed: 10/27/06						
Sulfate	129	12.5	mg/L		129			0.00	20	
Chloride	643	12.5	"		645			0.311	20	
Duplicate (EJ62702-DUP2)			Source: 6J27017-05	Prepared & Analyzed: 10/27/06						
Sulfate	223	25.0	mg/L		226			1.34	20	
Chloride	1310	25.0	"		1330			1.52	20	
Matrix Spike (EJ62702-MS1)			Source: 6J26011-02	Prepared & Analyzed: 10/27/06						
Sulfate	369	12.5	mg/L	250	129	96.0	80-120			
Chloride	934	12.5	"	250	645	116	80-120			
Matrix Spike (EJ62702-MS2)			Source: 6J27017-05	Prepared & Analyzed: 10/27/06						
Sulfate	716	25.0	mg/L	500	226	98.0	80-120			
Chloride	1930	25.0	"	500	1330	120	80-120			

Environmental Lab of Texas

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

Project: Vacuum G-35/ F-35 Site
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 Limits	RPD	RPD Limit	Notes
Batch EJ63006 - Filtration Preparation									
Blank (EJ63006-BLK1)				Prepared: 10/30/06 Analyzed: 10/31/06					
Total Dissolved Solids	ND	10.0	mg/L						
Duplicate (EJ63006-DUP1)				Source: 6J27015-01 Prepared: 10/30/06 Analyzed: 10/31/06					
Total Dissolved Solids	2860	10.0	mg/L		3190		10.9	5	R2
Duplicate (EJ63006-DUP2)				Source: 6J27017-03 Prepared: 10/30/06 Analyzed: 10/31/06					
Total Dissolved Solids	1590	10.0	mg/L		1910		18.3	5	R2
Batch EJ63107 - General Preparation (WetChem)									
Blank (EJ63107-BLK1)				Prepared & Analyzed: 10/31/06					
Total Alkalinity	ND	2.00	mg/L						
LCS (EJ63107-BS1)				Prepared & Analyzed: 10/31/06					
Total Alkalinity	196	2.00	mg/L	200		98.0	85-115		
Duplicate (EJ63107-DUP1)				Source: 6J27015-01 Prepared & Analyzed: 10/31/06					
Total Alkalinity	424	2.00	mg/L		432		1.87	20	
Reference (EJ63107-SRM1)				Prepared & Analyzed: 10/31/06					
Total Alkalinity	254		mg/L	250		102	90-110		

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

Project: Vacuum G-35/ F-35 Site
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 EK60223 - 6010B/No Digestion										
Blank (EK60223-BLK1)				Prepared & Analyzed: 11/02/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EK60223-CCV1)				Prepared & Analyzed: 11/02/06						
Calcium	2.22		mg/L	2.00		111	85-115			
Magnesium	2.07		"	2.00		104	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.98		"	2.00		99.0	85-115			
Duplicate (EK60223-DUP1)				Source: 6J27015-01		Prepared & Analyzed: 11/02/06				
Calcium	186	4.05	mg/L		192			3.17	20	
Magnesium	49.6	0.360	"		49.2			0.810	20	
Potassium	6.20	0.600	"		6.45			3.95	20	
Sodium	801	10.8	"		816			1.86	20	

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

Project: Vacuum G-35/ F-35 Site
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.
R2 The RPD exceeded the acceptance limit.
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.

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

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

Environmental Lab of Texas

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.

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Environmental Lab of Texas

12600 West 1-20 East
Odessa, Texas 79766

Phone: 432-563-1800

Fax: 432-603-1713

Project Manager: Kristin Farris Pope kpope@riceswd.com

Project Name: Vacuum F-35 SWD and G-35 SWD

Company Name: RICE Operating Company

Project Number:

Company Address: 122 W. Taylor Street

Project Loc: T17S-R35E-See 35 F/G, Lee County NM

City/State/Zip: Hobbs, New Mexico 88240

PO Number:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valornet.com

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative				Matrix		Analyze For										
					HNO ₃	HCl (2.40 ml glass vials)	NaOH	H ₂ SO ₄	None (1 Liter HDPE)	Other (Specify)	Water	Sludge	Soil	Other (Specify)	TOTAL	Volatiles	Semivolatiles	BTX 80218/5030	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule)
-9	F-35 SWD Monitor Well #1	10/24/2006	14:40	3	X	2			1		X							X	X	X	X
-2	F-35 SWD Monitor Well #2	10/24/2006	15:45	3	X	2			1		X							X	X	X	X
-63	G-35 SWD Monitor Well #1	10/25/2006	16:10	3	X	2			1		X							X	X	X	X
-04	G-35 SWD Monitor Well #2	10/25/2006	9:45	3	X	2			1		X							X	X	X	X

Special Instructions:

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

Sample Containers Intact? ☒ N
Labels on container? ☒ N
Custody Seals: Contaminated ☒ Cool
Temperature Upon Receipt: 1.5

Relinquished by:

Date: 10-27-06

Received by:

Date:

Time:

Relinquished by:

Date: 10-27-06

Received by ELOT:

Date:

Time:

Laboratory Comments:

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ent: Rice Dr.
 ate/ Time: 10/27/00 2:45
 b ID #: 6327015
 tials: ck

Sample Receipt Checklist

Client Initials

1	Temperature of container/ cooler?	Yes	No	15 °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	

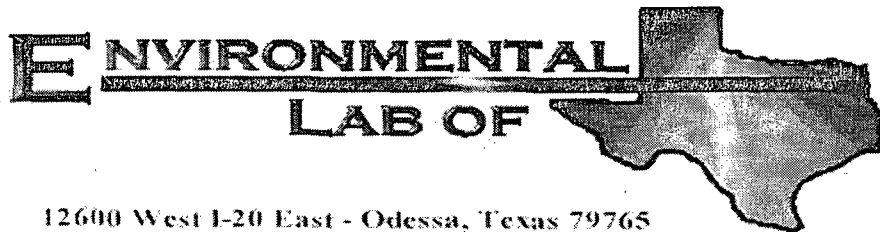
Variance Documentation

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



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: Vacuum F-35 SWD & G-35 SWD

Project Number: None Given

Location: T17S R35E Sec. 35 F&G- Lea County, NM

Lab Order Number: 6L07012

Report Date: 12/20/06

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F-35 SWD Monitor Well #3	6L07012-01	Water	12/04/06 10:45	12-07-2006 10:50
G-35 SWD Monitor Well #3	6L07012-02	Water	12/04/06 12:20	12-07-2006 10:50

** The presence of toluene in Sample 6L07012-01 was confirmed by GC/MS. The spectrum also showed the presence of methyl ethyl ketone, (MEK). MEK is often found in plastic glues and/or primers used when installing PVC pipe.

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #3 (6L07012-01) Water									
Benzene	0.000370	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	0.0150	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		128 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		93.2 %	80-120		"	"	"	"	

G-35 SWD Monitor Well #3 (6L07012-02) Water

Benzene	ND	0.00100	mg/L	1	EL61404	12/14/06	12/14/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-120		"	"	"	"	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #3 (6L07012-01) Water									
Total Alkalinity	184	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	80.1	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	450	10.0	"	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	81.5	5.00	"	10	EL60801	12/07/06	12/07/06	EPA 300.0	
G-35 SWD Monitor Well #3 (6L07012-02) Water									
Total Alkalinity	262	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	
Chloride	370	12.5	"	25	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	994	10.0	"	1	EL60803	12/07/06	12/08/06	EPA 160.1	
Sulfate	41.9	12.5	"	25	EL60801	12/07/06	12/07/06	EPA 300.0	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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F-35 SWD Monitor Well #3 (6L07012-01) Water

Calcium	66.4	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	12.5	0.360	"	10	"	"	"	"	
Potassium	3.24	0.600	"	"	"	"	"	"	
Sodium	78.4	2.15	"	50	"	"	"	"	

G-35 SWD Monitor Well #3 (6L07012-02) Water

Calcium	119	4.05	mg/L	50	EL60805	12/08/06	12/11/06	EPA 6010B	
Magnesium	15.7	0.360	"	10	"	"	"	"	
Potassium	5.33	0.600	"	"	"	"	"	"	
Sodium	242	2.15	"	50	"	"	"	"	

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL61404 - EPA 5030C (GC)

Blank (EL61404-BLK1)

Prepared & Analyzed: 12/14/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	45.2		ug/l	40.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	34.5		"	40.0		86.2	80-120			

LCS (EL61404-BS1)

Prepared & Analyzed: 12/14/06

Benzene	0.0423	0.00100	mg/L	0.0500		84.6	80-120			
Toluene	0.0430	0.00100	"	0.0500		86.0	80-120			
Ethylbenzene	0.0426	0.00100	"	0.0500		85.2	80-120			
Xylene (p/m)	0.0962	0.00100	"	0.100		96.2	80-120			
Xylene (o)	0.0469	0.00100	"	0.0500		93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.6		ug/l	40.0		94.0	80-120			
Surrogate: 4-Bromofluorobenzene	32.8		"	40.0		82.0	80-120			

Calibration Check (EL61404-CCV1)

Prepared: 12/14/06 Analyzed: 12/15/06

Benzene	54.4		ug/l	50.0		109	80-120			
Toluene	55.1		"	50.0		110	80-120			
Ethylbenzene	59.3		"	50.0		119	80-120			
Xylene (p/m)	116		"	100		116	80-120			
Xylene (o)	58.7		"	50.0		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.9		"	40.0		120	80-120			
Surrogate: 4-Bromofluorobenzene	40.0		"	40.0		100	80-120			

Matrix Spike (EL61404-MS1)

Source: 6L05006-10

Prepared: 12/14/06 Analyzed: 12/18/06

Benzene	0.0402	0.00100	mg/L	0.0500	ND	80.4	80-120			
Toluene	0.0407	0.00100	"	0.0500	ND	81.4	80-120			
Ethylbenzene	0.0487	0.00100	"	0.0500	ND	97.4	80-120			
Xylene (p/m)	0.0853	0.00100	"	0.100	ND	85.3	80-120			
Xylene (o)	0.0444	0.00100	"	0.0500	ND	88.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.6		ug/l	40.0		81.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.7		"	40.0		96.8	80-120			

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL61404 - EPA 5030C (GC)

Matrix Spike Dup (EL61404-MSD1)

Source: 6L05006-10

Prepared: 12/14/06 Analyzed: 12/18/06

Benzene	0.0422	0.00100	mg/L	0.0500	ND	84.4	80-120	4.85	20	
Toluene	0.0446	0.00100	"	0.0500	ND	89.2	80-120	9.14	20	
Ethylbenzene	0.0464	0.00100	"	0.0500	ND	92.8	80-120	4.84	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	17.8	20	
Xylene (o)	0.0513	0.00100	"	0.0500	ND	103	80-120	14.8	20	
Surrogate: a,a,a-Trifluorotoluene	38.2		ug/l	40.0		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	37.7		"	40.0		94.2	80-120			

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EL60801 - General Preparation (WetChem)									
Blank (EL60801-BLK1)		Prepared & Analyzed: 12/08/06							
Chloride	ND	0.500	mg/L						
Sulfate	0.623	0.500	"						B
LCS (EL60801-BS1)		Prepared & Analyzed: 12/08/06							
Sulfate	10.3	0.500	mg/L	10.0		103	80-120		
Chloride	10.0	0.500	"	10.0		100	80-120		
Calibration Check (EL60801-CCV1)		Prepared & Analyzed: 12/08/06							
Chloride	10.4		mg/L	10.0		104	80-120		
Sulfate	11.6		"	10.0		116	80-120		
Duplicate (EL60801-DUP1)		Source: 6L07005-01		Prepared & Analyzed: 12/08/06					
Sulfate	13.4	2.50	mg/L		13.4		0.00	20	
Chloride	129	2.50	"		130		0.772	20	
Matrix Spike (EL60801-MS1)		Source: 6L07005-01		Prepared & Analyzed: 12/08/06					
Sulfate	61.4	2.50	mg/L	50.0	13.4	96.0	80-120		
Chloride	189	2.50	"	50.0	130	118	80-120		
Batch EL60803 - Filtration Preparation									
Blank (EL60803-BLK1)		Prepared: 12/07/06 Analyzed: 12/08/06							
Total Dissolved Solids	ND	10.0	mg/L						
Duplicate (EL60803-DUP1)		Source: 6L07005-01		Prepared: 12/07/06 Analyzed: 12/08/06					
Total Dissolved Solids	266	10.0	mg/L		246		7.81	20	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL60807 - General Preparation (WetChem)										
Blank (EL60807-BLK1)				Prepared & Analyzed: 12/07/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EL60807-BS1)				Prepared & Analyzed: 12/07/06						
Bicarbonate Alkalinity	186	2.00	mg/L	200		93.0	85-115			
Duplicate (EL60807-DUP1)				Source: 6L07012-01 Prepared & Analyzed: 12/07/06						
Total Alkalinity	182	2.00	mg/L		184			1.09	20	
Reference (EL60807-SRM1)				Prepared & Analyzed: 12/07/06						
Total Alkalinity	246		mg/L	250		98.4	90-110			

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

Project: Vacuum F-35 SWD & G-35 SWD
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 Limits	RPD	RPD Limit	Notes
Batch EL60805 - 6010B/No Digestion									
Blank (EL60805-BLK1)				Prepared: 12/08/06 Analyzed: 12/11/06					
Calcium	ND	0.0810	mg/L						
Magnesium	ND	0.0360	"						
Potassium	ND	0.0600	"						
Sodium	ND	0.0430	"						
Calibration Check (EL60805-CCV1)				Prepared: 12/08/06 Analyzed: 12/11/06					
Calcium	2.02		mg/L	2.00		101	85-115		
Magnesium	2.03		"	2.00		102	85-115		
Potassium	1.77		"	2.00		88.5	85-115		
Sodium	2.00		"	2.00		100	85-115		
Duplicate (EL60805-DUP1)		Source: 6L07012-01		Prepared: 12/08/06 Analyzed: 12/11/06					
Calcium	61.4	4.05	mg/L		66.4			7.82	20
Magnesium	13.4	0.360	"		12.5			6.95	20
Potassium	3.81	0.600	"		3.24			16.2	20
Sodium	73.2	2.15	"		78.4			6.86	20

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

Project: Vacuum F-35 SWD & G-35 SWD
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.

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: 12/20/2006

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

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

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

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

Environmental Lab of Texas

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

Client: Rite Op.
Date/ Time: 12/7/02 10:50
Lab ID #: 06L07012
Initials: OK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	-2.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

February 12, 2007

Wayne Price
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: 2006 Annual Ground Water Monitoring Report
F-35 SWD, Sec 35, T17S, R35E, Unit "F"
NMOCD Case #: AP-59

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2006 Annual Ground Water Monitoring Report for the F-35 SWD site located in the Vacuum Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
2. Graphs showing chemical concentration vs. time for chloride and TDS.
3. Laboratory data sheets associated with the routine sampling for 2006.
4. Potentiometric surface map.

The Vadose Zone Remedy Plan was submitted to NMOCD on November 15, 2006. The Vadose Zone Remedy Plan is pending NMOCD approval.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of the annual report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely,
R.T. Hicks Consultants, Ltd.



Randall T. Hicks
Principal

Copy: Hobbs NMOCD office; Rice Operating Company