AP - 59

F-35 ANNUAL GW MONITORING REPORT

DATE: 2006

F-35 Annual GW Mon. Report

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

Table 1: chemistry over time

F-35 SWD

Comments					·																mod. odor; gray							
Total Xylenes (ug/L)	0.0900	0.0900	0:3080	0.3090	0.0760	0.0760	0.4310	0.4310	0.1240	0.1240	0.0670	0.0670	0.1920	0.1920	0.2480	0.2480	0.0270	0.0270	0.2150	0.2150	0.2247	0.2247	0.2507	0.2507	1.2830	1.2830	176.2000	176.2000
EthylBenzene (ug/L)	0.050	0.050	0.510	0.510	0.112	0.112	0.835	0.835	0.321	0.321	0.061	0.061	0.202	0.202	0.264	0.264	0.121	0.121	0.268	0.268	0.143	0.143	0.209	0.209	0.848	0.848	374	374
Toluene (ug/L)	0.053	0.053	0.207	0.207	0.172	0.172	0.343	0.343	0.840	0.840	0.134	0.134	0.360	0.360	0.301	0.301	0.038	0.038	0.176	0.176	0.221	0.221	0.313	0.313	1.610	1.610	451	451
Benzene (ug/L)	0.050	0.050	0.744	0.744	0.705	0.705	1.210	1.210	0.909	0.909	0.632	0.632	0.617	0.617	0.797	0.797	0.349	0.349	0.726	0.726	0.429	0.429	0.0489	0.0489	2.200	2.200	989	989
TDS (mg/L)	9425	9425	7050	7050	6040	6040	6020	6020	4040	4040	4180	4180	4000	4000	3760	3760	3932	3932	4008	4008	3000	3000	2740	2740	2210	2210	2970	2970
Sulfate (mg/L)	5	Ŋ	3.2	3.2	10.7	10.7	2.8	2.8	26.2	26.2	20.3	20.3	6.4	6.4	5.1	5.1	0.19	0.19	8.7	8.7	19.9	19.9	51	51	110	110	24.6	24.6
Chloride (mg/L)	5200	5200	3720	3720	3630	3630	3720	3720	2200	2200	2300	2300	2060	2060	2000	2000	1819	1819	1759	1759	1040	1040	1260	1260	1220	1220	1490	1490
DTW (ft)	58.00	58.00	XXX	XXX	XXX	XXX	XX	XXX	XXX	XX	XX	XX	XX	XX	XXX	XXX	58.20	58.20	58.50	58.50	58.20	58.20	57.81	57.81	57.18	57.18		
Date	1/10/2002	1/10/2002	5/15/2002	5/15/2002	8/19/2002	8/19/2002	11/11/2002	11/11/2002	2/28/2003	2/28/2003	6/5/2003	6/5/2003	8/21/2003	8/21/2003	11/19/2003	11/19/2003	2/18/2004	2/18/2004	5/27/2004	5/27/2004	9/7/2004	9/7/2004	11/24/2004	11/24/2004	3/21/2005	3/21/2005	5/11/2005	5/11/2005
Well Name	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1						

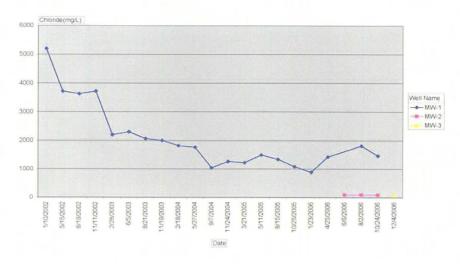
Table 1: chemistry over time

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Comments					Heavy skim of Oil: Septic Odor	Heavy skim of Oil: Septic Odor			Heavy skim of Oil: Septic Odor Clear turning Dark Gray	Clear with a strong septic odor		Clear no odor	Clear no odor				Clear / Slight Odor
Total Xylenes (ug/L)	0.5840	0.5840	0.3062	0.3062	0.3006	0.3006	0.1614	0.1614	0.2010	0.745	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	<0.001	<0.001	<0.001	<0.001		<0.001
EthylBenzene (ug/L)	0.666	0.666	0.394	0.394	0.28	0.28	0.174	0.174	0.213	0.230		<0.001	<0.001	<0.001	<0.001		<0.001
Toluene (ug/L)	0.393	0.393	0.243	0.243	0.222	0.222	0.0956	0.0956	0.108	0.489		<0.001	<0.001	<0.001	<0.001	1000	0.0150
Benzene (ug/L)	0.819	0.819	0.779	0.779	0.447	0.447	0.227	0.227	0.349	0.462		<0.001	<0.001	<0.001	<0.001		0.000370
TDS (mg/L)	2890	2890	2540	2540	2080	2080	3040	3040	2680	3190	- Contractor -	724	724	723	598		450
Sulfate (mg/L)	69.5	69.5	72.7	72.7	88.2	88.2	62.5	62.5	17	45.2		63.3	63.3	99	67.2		81.5
Chloride (mg/L)	1340	1340	1080	1080	886	886	1420	1420	1810	1460		9.76	97.6	96	89.1		80.1
DTW (ft)	58.40	58.40	57.45	57.45	57.38	57.38	57.58	57.58	57.69	XX		52.57	52.57	52.66	52.77		52.18
Date	8/15/2005	8/15/2005	10/25/2005	10/25/2005	1/23/2006	1/23/2006	4/25/2006	4/25/2006	8/2/2006	10/24/2006		6/6/2006	9/6/2006	8/2/2006	10/24/2006		12/4/2006
Well Name	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1		MW-2	MW-2	MW-2	MW-2		MW-3

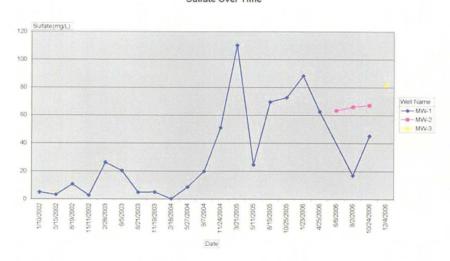
Site Name F-35 SWD

Chloride Over Time



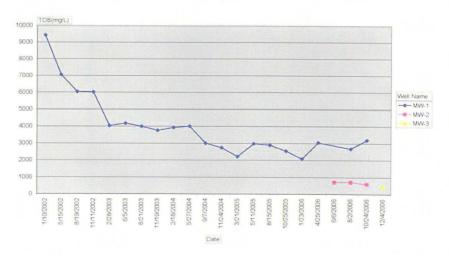
Site Name F-35 SWD

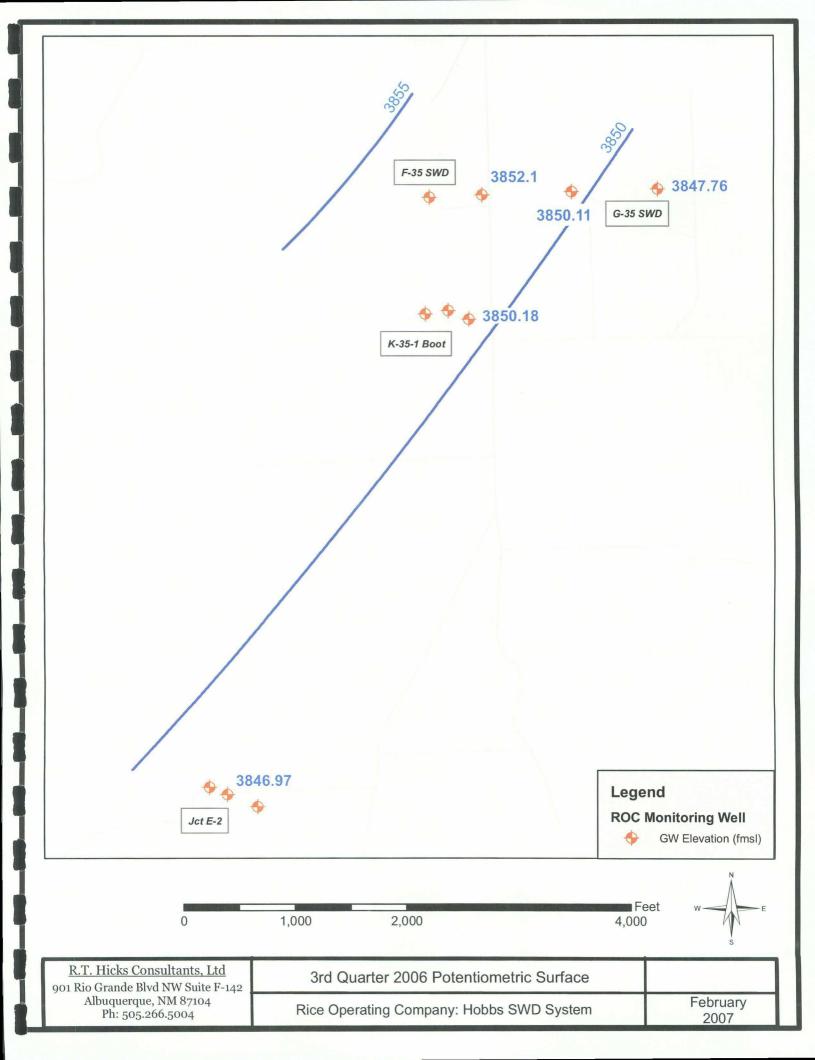
Sulfate Over Time

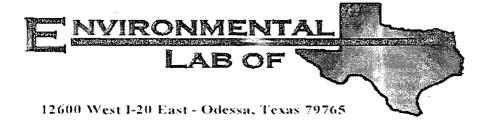


Site Name F-35 SWD

TDS Over Time







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

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.

Project: Vacuum F-35 SWD

122 W. Taylor

Hobbs NM, 88240

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	,,	ft	п	n		**	
Ethylbenzene	0.280	0.0100	н	11	**	n	п	н	
Xylene (p/m)	0.240	0.0100	n	и .	•	**	n		
Xylene (o)	0.0606	0.0100	n	"	"	*		**	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-12	0	"	n n	n	н	
Surrogate: 4-Bromofluorobenzene		115 %	80-12	0	11	n	"	"	

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	

Rice Operating Co.Project.Vacuum F-35 SWDFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope02/01/06 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	u.	н	"	**	н	31	
Potassium	1.46	0.500	н	11	н	n	"	п	
Sodium	603	5.00		500	"	n	"	tr.	

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
Batch EA62618 - EPA 5030C (GC)										
Blank (EA62618-BLK1)				Prepared: 0	1/26/06 A	nalyzed: 01	/27/06			
Benzene	ND	0.00100	mg/L		,					
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100	н							
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: 0	1/26/06 A	nalyzed: 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: 0	1/26/06 A	nalyzed: 01	/28/06			
Benzene	51.3		ug/l	50.0		103	80-120			
Toluene	52.5			50.0		105	80-120			
Ethylbenzene	54.5		n	50.0		109	80-120			
Xylene (p/m)	101		n	100		101	80-120			
Xylene (o)	55.6		n	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)	Sou	ırce: 6A24010-	-01	Prepared: 0	1/26/06 A	nalyzed: 01	/27/06			
Benzene	0.0559	0.00100	mg/L	0.0500	ND	112	80-120			
Foluene	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	11	0.100	ND	83.5	80-120			
Xylene (o)	0.0512	0.00100	41	0.0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluenc	37.5		ug/l	40.0		93.8	80-120			
Surrogate: 4-Bromofluorobenzene	34.3		"	40.0		85.8	80-120			

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
Batch EA62618 - EPA 5030C (GC)										
Matrix Spike Dup (EA62618-MSD1)	Sour	rce: 6A24010-	-01	Prepared: 0	1/26/06 Ai	nalyzed: 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	н	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			

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA62406 - General Preparatio	on (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)	Sour	ce: 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				
* · · · · · · · · · · · · · · · · · · ·			. /1	100		97.0	90-110			
Total Alkalinity Batch EA63003 - General Preparatio	97.0 on (WetChem)		mg/L	100		97.0	90-110			
·			mg/L	100		97.0	90-110			
Batch EA63003 - General Preparatio	on (WetChem)	5.00		Prepared: 0)1/26/06 Ai		.			
Batch EA63003 - General Preparatio		5.00	mg/L	Prepared: 0		nalyzed: 01	/27/06			
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids Duplicate (EA63003-DUP1)	on (WetChem)	5.00 ce: 6A25018-	mg/L		01/26/06 A1	nalyzed: 01	/27/06			
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids	on (WetChem)		mg/L	Prepared: 0		nalyzed: 01	/27/06	2.93	5	
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids Duplicate (EA63003-DUP1)	on (WetChem) ND Source 2020	ce: 6A25018-	mg/L 01	Prepared: 0	01/26/06 A1	nalyzed: 01	/27/06	2.93	5	
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids Duplicate (EA63003-DUP1) Total Dissolved Solids	on (WetChem) ND Source 2020	ce: 6A25018-	mg/L 01	Prepared: 0	01/26/06 Ai 2080 ,	nalyzed: 01 nalyzed: 01	/27/06	2.93	5	
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids Duplicate (EA63003-DUP1) Total Dissolved Solids Batch EA63004 - General Preparation	on (WetChem) ND Source 2020	ce: 6A25018-	mg/L 01	Prepared: 0	01/26/06 Ai 2080 ,	nalyzed: 01 nalyzed: 01	/27/06	2.93	5	
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids Duplicate (EA63003-DUP1) Total Dissolved Solids Batch EA63004 - General Preparation Blank (EA63004-BLK1)	on (WetChem) ND Source 2020 on (WetChem)	5.00	mg/L 01 mg/L	Prepared: 0	01/26/06 Ai 2080 ,	nalyzed: 01 nalyzed: 01	/27/06	2.93	5	
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids Duplicate (EA63003-DUP1) Total Dissolved Solids Batch EA63004 - General Preparation Blank (EA63004-BLK1) Sulfate	ND Source 2020 on (WetChem)	5.00 0,500	mg/L 01 mg/L mg/L	Prepared: 0	01/26/06 Ar 2080 , : Analyzed:	nalyzed: 01 nalyzed: 01 01/30/06	/27/06	2.93	5	
Batch EA63003 - General Preparation Blank (EA63003-BLK1) Total Dissolved Solids Duplicate (EA63003-DUP1) Total Dissolved Solids Batch EA63004 - General Preparation Blank (EA63004-BLK1) Sulfate Chloride	ND Source 2020 on (WetChem)	5.00 0,500	mg/L 01 mg/L mg/L	Prepared: 0 Prepared: 0 Prepared &	01/26/06 Ar 2080 , : Analyzed:	nalyzed: 01 nalyzed: 01 01/30/06	/27/06	2.93	5	

Rice Operating Co.

Project: Vacuum F-35 SWD

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

Reported: 02/01/06 08:25

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA63004 - General Preparation (V	VetChem)									
Calibration Check (EA63004-CCV1)				Prepared &	Analyzed:	01/30/06				
Sulfate	9.82		mg/L	10,0		98.2	80-120			
Chloride	8.64		n	10,0		86.4	80-120			
Duplicate (EA63004-DUP1)	Sour	ce: 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.

Project: Vacuum F-35 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

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
Batch EA62615 - 6010B/No Digestion		154444	- Carlo							
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	11			,				
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		*1	2.00		94.0	85-115			
Sodium	1.94		и	2.00		97.0	85-115			
Duplicate (EA62615-DUP1)	Sou	rce; 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	

Rice Operating Co.Project:Vacuum F-35 SWDFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope02/01/06 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

	Kaland K Julias		
Report Approved By:	7000.0.0	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.

Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

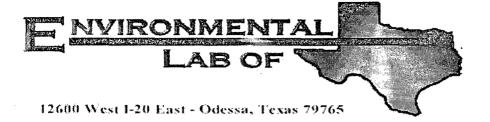
Phone: 432-563-1800 Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

					1				Total Dissolved Solids TAT (Pre-Schredule: TAT brebnets	×								37 U vi _ ≤ _ ∩′	10141030		
JWD		4				For	1		N.O.R.M.	×								tact? albere Co	nts:		
m F-35 S		Lea County				Analyze For	×		Voletiles Semivolatiles BTEX 8021B/5030	·								ntainers In container2 sels Count re Upon R	у Сотте		
e: Vacuu	#		4			9171	TOTAL	*	Anipris (Cl., 804, CC3, HCC3) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg S	×	-			_		-	$\frac{1}{1}$	Sample Containers Intect? Labels on container2 Custody Seals Containers Cooler Temperature Upon Receipt:	Laboratory Comments:		
Project Name: Vacuum F-35 SWD	Project#:	Project Loc:	PO *					9	Other (specify): TPH, 418.1 8015M 1005 100 Cations (Ca. Mg, Na. K)	×									Time		735¢
ä.	1	ì	1	1.	ı			Metrix	egbul? fies									wd.com	Date		Date
									Mone (1) 1 Liter HDPE Othor (Specify) Water	٠ ×								@rices\	-		- \(\frac{1}{5}\)
			•	-1471				Preservative	HCI (S) 40 ml glass vizis NaOH H ₂ SO ₄	2								nfranks			
				Fax No: (505) 397-1471					No. of Confairers lice HWO ₃	×								 ж шоэ.			
com				Fax No: (/ ﴿			balqms2 əmiT	13:00								kpriceswd@valornet.com & mfranks@riceswd.com			ceived by ELOT:
kpriceswd@valomet.com					9310				baldms2 ətsCl	1/23/2006		,							Received by:		Received by ELOT.
kprices	pany		88240		505) 631-		5											SULTS	Time	1:2	Time
rris Pope	erating Con	aylor Streel	ew Mexico	-9174	Johnson (ovalornat o			FIELD CODE									PLEASE Email RESULTS TO:	Date,	10/2/1	Date
Project Manager: Kristin Farris Pope	Company Name RICE Operating Company	Company Address: 122 W. Taylor Street	city/state/zip: Hobbs, New Mexico 88240	Telephone No: (505) 393-9174	Sampler Signature: Rozanne Johnson (505) 631-9310	E rozanoe@valomet com	Lindle Tokarılığı		E.	Monitor Well #1								PLEASE	1	T	
Project Mar	Company	Company Add	City/Stal	Telephon	Sampler Sign	u	-		LAB # (lab use only)	-								Special Instructions:	Relinquished by:	Rozanne Johnson	Relinquished by:
								•				. 15.	1 4	 	in the	ر حرزہ			[7 _

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

Slient: RICH OP,				
Date/Time: 1/25/00 13:26	•			
Order#: 6A1506				
Initials:				
Comple Descint	Chaddi			
Sample Receipt Temperature of container/cooler?	Yes	No I	-2.5 C	- 1
Shipping container/cooler in good condition?	YES	No	- 213 C	-{
Custody Seals intact on shipping container/cooler?	₹ 2 §	No	Not present	
Custody Seals intact on sample bottles?	Xes	No	Not present	
Chain of custody present?	16.,	No	NOT PLESSIN	_
Sample Instructions complete on Chain of Custody?	\ \Z 5_	No		<u>-!</u>
Chain of Custody signed when relinquished and received?	1 2=5	No		
Chain of custody agrees with sample label(s)	₹ ₹ \$	No		_ <u>'</u>
Container labels legible and intact?	\(\frac{1}{2} \)	No		-
Sample Matrix and properties same as on chain of custody?	/歌	No		-[
Sample Matrix and properties same as on cream or custody? Samples in procer container/bottle?	Xes	No		-
	Yes	No !		
Samples properly preserved? Sample bottles intact?	<u> </u>	No		
	<u>}</u>			<u>!</u>
Preservations documented on Chain of Custody?	Xes	No		
Containers documented on Chain of Custody?	(2 5)	No No		-
Sufficient sample amount for indicated test? All samples received within sufficient hold time?	Yes			<u> </u>
VOC samples have zero headspace?	Yes	No No	Not Applicable	_
Other observations:				
Variance Documents Contact Person: Date/Time: Regarding:	1.00		Contacted by:	,
Corrective Action Taken:				
			<u> </u>	



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.

Project: Vacuum F-35 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

Reported: 05/04/06 14:08

ANALYTICAL REPORT FOR SAMPLES

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

Project Number: 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	**	**	17	**	n	vi .	
Ethylbenzene	0.174	0.00100	11	**	,		H .		
Xylene (p/m)	0.136	0.00100		u	n	n	Ħ	n	
Xylene (o)	0.0254	0.00100	ь		"	n		н	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-12	0	"	"	"	n	

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	н	1	EE60115	04/27/06	04/28/06	EPA 160.1	
Sulfate	62.5	25.0	н	50	EE60116	05/01/06	05/01/06	EPA 300.0	

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 Monitor Well #1 (6D27015-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	122	0.500	mg/L	50	ED62719	04/27/06	04/27/06	EPA 6010B	
Magnesium	36.0	0.0100	u	10			,	н	
Potassium	5.87	0.500	n		11	n	11	н	
Sodium	916	5.00	u	500		n	**	H	

Project: Vacuum F-35 SWD

Project Number: None Given
Project Manager: Kristin Färris-Pope

Fax: (505) 397-1471

Reported: 05/04/06 14:08

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch ED62807 - EPA 5030C (GC)										
Blank (ED62807-BLK1)				Prepared: ()4/28/06 Aı	nalyzed: 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	10							
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	42.2		u	40.0		106	80-120			
LCS (ED62807-BS1)				Prepared: 0)4/28/06 Aı	nalyzed: 04	/30/06			
Benzene	0.0599	0.00100	mg/L	0.0500		120	80-120			
Toluene	0.0580	0.00100	н	0.0500		116	80-120			
Ethylbenzene	0.0551	0.00100	"	0.0500		110	80-120			
Xylene (p/n ₁)	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 Ai	nalyzed: 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)	Sou	rce: 6D27008-	01	Prepared: ()4/28/06 Aı	nalyzed: 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	11	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		n	40.0		119	80-120			

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 Batch ED62807 - EPA 5030C (GC)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Matrix Spike Dup (ED62807-MSD1)	Sou	rce: 6D27008-	01	Prepared: ()4/28/06 A	nalyzed: 05	/01/06			

Matrix Spike Dup (ED62807-MSD1)	Sour	ce: 6D27008-	-01	Prepared: 0	4/28/06 A	nalyzed: 0	5/01/06		
Benzene	0.0597	0.00100	mg/L	0.0500	ND	119	80-120	3.42	20
Toluene	0.0579	0.00100	н	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-Bromofluorohenzene	46.4		"	40.0		116	80-120		

Rice Operating Co.

Project: Vacuum F-35 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

Reported: 05/04/06 14:08

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE60115 - General Preparation (WetChem)									
Blank (EE60115-BLK1)				Prepared: (04/27/06 A	nalyzed: 04	1/28/06			
Total Dissolved Solids	ND	5.00	mg/L			·				
Duplicate (EE60115-DUP1)	Sour	ce: 6D27015-	-01	Prepared: (04/27/06 A	nalyzed: 04	1/28/06			
Total Dissolved Solids	3020	5.00	mg/L		3040			0.660	5	
Batch EE60116 - General Preparation (WetChem)						,			
Blank (EE60116-BLK1)				Prepared &	Analyzed	05/01/06				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EE60116-BS1)				Prepared &	Analyzed	05/01/06				
Sulfate	9.47	0.500	mg/L	10.0		94.7	80-120			
Chloride	9.71	0.500	"	10.0		97.1	80-120			
Calibration Check (EE60116-CCV1)				Prepared &	Analyzed	05/01/06				
Chloride	9.86		mg/L	10.0		98.6	80-120			
Sulfate	8.11		"	10.0		81.1	80-120			
Duplicate (EE60116-DUP1)	Sour	ce: 6D27008-	-01	Prepared &	Analyzed	05/01/06				
Sulfate	80.0	2.50	mg/L		79.2			1.01	20	
Chloride	49.3	2.50	n		49.0			0.610	20	•
Batch EE60301 - General Preparation (V	WetChem)							` .		
Blank (EE60301-BLK1)				Prepared &	Analyzed:	05/03/06				
Total Alkalinity	ND	2.00	mg/L							

Rice Operating Co.Project:Vacuum F-35 SWDFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope05/04/06 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 Preparatio	n (WetChem)									-
LCS (EE60301-BS1)				Prepared &	Analyzed:	05/03/06				
Bicarbonate Alkalinity	214		mg/L	200		107	85-115			
Duplicate (EE60301-DUP1)	Sou	rce: 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	-		

Rice Operating Co. 122 W. Taylor Project: Vacuum F-35 SWD

Project Number: None Given

Reported: 05/04/06 14:08

Fax: (505) 397-1471

Hobbs NM, 88240 Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

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	n							
Sodium	ND	0.0100	n							
Calibration Check (ED62719-CCV1)				Prepared &	Analyzed:	04/27/06				
Calcium	2.08		mg/L	,			85-115			
Magnesium	2.16						85-115			
Potassium	1.94		н				85-115			
Sodium	1.96		"				85-115			
Duplicate (ED62719-DUP1)	Sou	rce: 6D26006-	01	Prepared &	Analyzed:	04/27/06				
Calcium	0.0366	0.0100	mg/L		0.0367			0.273	20	
Magnesium	ND	0.00100	p		ND				20	
Potassium	0.275	0.0500	n		0.275			0.00	20	
Sodium	13.0	0.100	"		12.1			7.17	20	

Rice Operating Co.Project:Vacuum F-35 SWDFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope05/04/06 14:08

Notes and Definitions

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

	Kaland KJulus		
Report Approved By:		Date:	5/4/2006

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

0

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

100

Odessa, Texas 79765 12600 West I-20 East

Phone: 432-563-1800

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Fax: 432-563-1713

Custody Seals: Centainers / Cooler sbito2 bevlossiO listo7 TO'S'M' Temperature Upont Receipt: Project Name: Vacuum F-35 SWD 108 Sample Containers Intact? Lea County 0E09/81Z08/X318 Labels on container? Vetals: As Ag Ba Cd Ct Pb Hg Se TOLP: SAR / ESP / CEC Project Loc: PO #: Project #: Anions (C), 504, CO3, HCO3) (Ca, Mg, Na, K) 8001 8001 M8108 1.814:H9 Other (specify): PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com Sindge **NVater** Other (Specify) None (1) 1 Liter HDPE Fax No: (505) 397-1471 HOSM HCI (2) 40 ml glacs vials CONH eo| No. of Containers (1) 11:25 Time Sampled kpope@riceswd.com 4/25/2006 Date Sampled sampler Signature: Rozanne Johnson (505) 631-9310 city/State/Zip: Hobbs, New Mexico 88240 Company Name RICE Operating Company Email: rozanne@valornet.com Project Manager. Kristin Farris Pope Company Address: 122 W. Taylor Street FIELD CODE Telephone No: (505) 393-9174 Monitor Well #1 Special Instructions: AB # (lab use only)

TAT bisonet2

(alubada2-arq) TAT H2UR

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NO

Laboratory Comments:

Time 10:3

Date

20/22/8

Received by ELOT

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4/21/00 Date

Relinquished by

Received by:

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

ent <u>PCOTO</u> ,					
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ent: <u>Rice Op,</u> tertime: 4/27/00 10:30					
der#: (at 27015					
ials: UC					
Sample Receipt	t Checkli	st			
nperature of container/cooler?	Yes	No I	20	C 1	
pping container/cooler in good condition?	¥25 I	No			
stody Seals intaction shipping container/cooler?	Es	No	Not prese	nt i	
stody Seals intact on sample bottles?	25	No	Not preser		
ain of custody present?	Ves	No		<u> </u>	
nple Instructions complete on Chain of Custody?	6	No		i	
ain of Custody signed when relinquished and received?	1	No			
sin of custody agrees with sample label(s)	(25)	No			
ntainer labels legible and intact?	(5)	No			
nple Matrix and properties same as on chain of custody?	Yes	No			
moles in procer container/bottle?	Yes	l old			
mples properly preserved?	Yes I	No		<u>.</u>	
mole cottles intact?		No			
eservations documented on Chain of Custody?) Yes	No	***************************************		
ntainers documented on Chain of Custody?		No		·	
ficient sample amount for indicated test?	(A)	No			
samples received within sufficient hold time?	i @s	No			
C samples have zero headspace?	YE	No	Not Applica	inla i	
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To this structure of Constitution is the second of the constitution of the constitution of the constitution of 24% per annum from the original date of Involve. ANALYSIS REQUEST rozanne & valornet.com migrants @ ricesud com Please Email Results to Kpope Origesud. Com and at teat to the Villa.

| Pitohe Result C. Yes C. No Additional Fax#: Eax Result. C. Yes C. No ReMARKS: within 3d days after completion of the applicable 101 East Marland, Hobbs, NM 88240 TIME 7:00 (505) 393-2326 Fax (505) 393-2476 * OLTIU S N DATE : A3HTO PRES. Company: ICE / COOF Address: Phone # Received By: (Lab Staff Fax # State ACID: (2) PIEX Attn: City: : ABHTO SLUDGE SAD EXE ZOIF Enlately 2111 Beechwood, Abilene, TX 79603 State: 1/1/21p: 88 240 (915) 673-7001 Fax (915) 673-7020 MASTEWATER GROUNDWATER -1000 # CONTAINERS Taylor Stave Time: /3:30 Date: 0/16/2004 - 역MO(၁) 되O BAR(ම) F-38 Project Owner: Time: FORECE busin'ty Sample I.D. 3-9174 Ġ BOULLAN Sampler - UPS - Bus - Other: Delivered By: (Circle One) PLEASE NOTE: Libelity and Damages, Our Arabyses, At Gistine Holicity those formation beavior. In his event was Carolinis to Bable 1 133 W Sampler Relinquished Project Manager: Project Location: Relinquished By: Company Name: FOR LAB USE ONLY Project Name: City: History LABI.D. Address: Phone #: /F KIII19 Project#: Fax #:

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



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

*						
	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(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
		40.0	10.0	0.00	4405	
Quality Control	NR	48.0	48.6	3.82	1425	NR
True Value QC	NR 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:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
	cr	SO ₄	CO3	HCO3	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(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-CI-B	375.4	310.1	310.1	150.1	160.1

the S. Mogent 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 investiging 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 his 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.





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

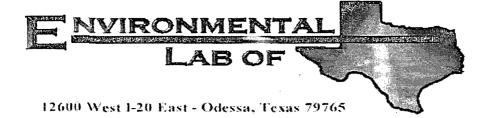
LAB NUMBER SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE	06/06/06	06/06/06	06/06/06	06/06/06
H11193-1 MONITOR WELL	#2 <0.002	<0.002	<0.002	<0.006

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
		-		
				<u> </u>
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

Date



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

Project: Vacuum F-35 SWD

Project Number: None Given

Fax: (505) 397-1471

Project Manager: Kristin Farris-Pope

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

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	Ü	n	n	в	H	•	
Ethylbenzene	ND	0.00100		**	"	H	Đ.	и	
Xylene (p/m)	ND	0.00100	и ,	**	n		н	"	
Xylene (o)	ND	0.00100	n	14	н	"	п	**	
Surrogate: a,a,a-Trifluorotoluene		91.5 %	80-12	0	"	n	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	80-12	0	"	11	"	"	

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	

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	"	п	и	"	10	· ·	
Potassium	3.24	0.500	"	"	н	"	,,	н	
Sodium	36,2	0.100	**	**	11		н	v	

122 W. Taylor

Hobbs NM, 88240

Project: Vacuum F-35 SWD

Project Number: None Given

Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control Environmental Lab of Texas

		Domos*		Cmil	Sau		%REC	\	RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	KPD Limit	Notes
Batch EF60716 - EPA 5030C (GC)				· · · · · · · · · · · · · · · · · · ·					*	
Blank (EF60716-BLK1)				Prepared: 0	6/07/06 A	nalyzed: 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: 0	6/07/06 A	nalyzed: 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: 0	6/07/06 A	nalyzed: 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)	Sou	ırce: 6F01010-	01	Prepared: 0	6/07/06 A	nalyzed: 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			

Fax: (505) 397-1471

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)	Sou	rce: 6F01010-	01	Prepared: 0	6/07/06 Ai	nalyzed: 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			

Project: Vacuum F-35 SWD

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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)	Sour	ce: 6F06018-	01	Prepared &	Analyzed:	06/07/06				
Total Dissolved Solids	542	5.00	mg/L		552			1.83	5	
Batch EF60811 - General Preparation (V	WetChem)									
Blank (EF60811-BLK1)				Prepared &	Analyzed:	06/08/06	-		_	
Sulfate	ND	0.500	mg/L						7.117	
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	n	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)	Sour	ce: 6F06018-	01	Prepared &	Analyzed:	06/08/06				
Sulfate	76.2	5.00	mg/L		76.6			0,524	20	
Chloride	38.5	5.00	11		38.5			0.00	20	
Duplicate (EF60811-DUP2)	Sour	ce: 6F08002-	01	Prepared &	Analyzed:	06/08/06				
Chloride	2030	50.0	mg/L		2150			5.74	20	

Fax: (505) 397-1471

Project: Vacuum F-35 SWD

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		Limit	Units	Level	Result	/BICLC	Linus	Ki D	Limit	110103
Batch EF60811 - General Preparation	(WetChem)									
Matrix Spike (EF60811-MS1)	Sou	rce: 6F06018-	01	Prepared &	k Analyzed:	06/08/06				
Chloride	132	5.00	mg/L	100	38.5	93.5	80-120			
Sulfate	142	5.00	11	100	76.6	65.4	75-125			QS-1
Matrix Spike (EF60811-MS2)	Sou	rce: 6F08002-	01	Prepared &	Analyzed:	06/08/06				
Chloride	3330	50.0	mg/L	1000	2150	118	80-120			
Sulfate	923	50.0	11	1000	282	64.1	75-125			QS-I
Batch EF60916 - General Preparation	(WetChem)								·	
Blank (EF60916-BLK1)				Prepared &	2 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)	Sou	rce: 6F06018-	01	Prepared &	Analyzed:	06/09/06				
Total Alkalinity	206	2.00	mg/L		207			0.484	20	
Reference (EF60916-SRM1)				Prepared &	k Analyzed:	06/09/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Project: Vacuum F-35 SWD

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	*1							
Sodium	ND	0.0100	11							
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		n	2.00		97.5	85-115			
Sodium	2.02		41	2.00		101	85-115			
Duplicate (EF60804-DUP1)	Sou	rce: 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.

Project: Vacuum F-35 SWD

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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 Sample results reported on a dry weight basis dry Relative Percent Difference RPD LCS Laboratory Control Spike MS Matrix Spike Dup Duplicate

	Kaland KJulis		
Report Approved By:	Zamari Ciro	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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Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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C									M.R.O.I N.R.O.IV Total Discolved Solids TAT HEUR TAT bisbnists	×						2 2 GO = 2 Z Z = 2 GO =		
Project Name: Vacuum F-35 SWD	Project #:	Project Loc: Lea County	PO#;			Analyze For	TOTAL:		TPH: 418.1 8016M 1005 1000 Calions (Ca, Mg, Na, K) Anions (Ci, SO4, CO3, HCO3) AMelais: As Ag Ba Cd Cr Pb Hg S Semtvoisities	×						Sample Containers Intact? Labbes on container? Custody Seals: Containers/ (2000) Temperature Upon Receipt	Time Laboratory Comments:	Time Op.
Proj		Ā ļ						ve Matrix	Other (specify): Soil Other (Specify): Wore (1) 1 Liter HDPE	1 ×						griceswd.com	Date	Date Time
				Fax No: (505) 397-1471			1	Preservative	No. of Confainers Ice HCI (2) 40 ml glass vials NaOH H2SO ₄	3 X 2		7,111				kpope@riceswd.com & mfranks@riceswd.com		B
kpope@riceswd.com				Fax	310	7	TAN TO	, &	Date Sampled	6/6/2006 7:00			_				Received by:	Received by ELOT: (Q
	rating Company	lylor Street	ew Mexico 88240	9174	sampler Signature: Rozanne Johnson (505) 631-9310	valornet com			FIELD CODE							PLEASE Email RESULTS TO:	CONTROL Time R	Date Time R
Project Manager: Kristin Farris Pope	Company Name RICE Operating Company	Company Address: 122 W. Taylor Street	city/State/Zip: Hobbs, New Mexico 88240	Telephone No: (505) 393-9174	r Signature: Rozanne J	Email: rozanne@valornet com			STORES A SUPPLY FOR SERVICE	Monitor Well #2			200				the	
Proje	Com	Compar	5	Tel	Sample				LAB # (ab use only)	10				を表する。 をまする。 をまる。 をする。 を。 を。 を。 を。 を。 を。 を。 を。 を。 を		Special Instructions:	Rozanne Jamson	Relinquished by:

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

IEDE RUCE DE				
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eterTime: (effetible 640				
order # 670020				
otiels: CC	•			
Sample Receipt	Checkli	st		
emperature of container/cooler?	Yes	No	[1,5]	
hipping container/cooler in good condition?	XE3 1	No		
ustody Seals intaction shipping container/cooler?	(EE)	No	Not present	
ustody Seals intact on sample bottles?	超	No	Not present	
hain of custody present?	₹ €5,	No		
ample Instructions complete on Chain of Custody?	Æ S	No	i	
hain of Custody signed when relinquished and received?	注字 1	No		
กลเก of custody agrees with sample label(s)	震	No		
Container labels legible and intact?	(es	No	}	
sample Matrix and properties same as on chain of custody?	Yes	No I		
amoles in proper container/bottle?	E	No		
amples properly preserved?		No		
ample bottles intact?	YES	1 No)	
Preservations documented on Chain of Custody?	1 753	1 20		
Cantainers documented on Chain of Custody?	X = 38	No 1		
Sufficient sample amount for indicated test?	833	No		
All samples received within sufficient hold time?	100	I No (
VOC samples have zero headspace?	Y23	No	Not Applicable	
Other observations:				
Variance Docu	mentatio	on:		,
Contact Person: Date/Time:			Contacted by: _	
Regarding:			•	
				
Corrective Action Taken:	· · · · · · · · · · · · · · · · · · ·			
CULTECTIVE ACTION TEXTER.				
	······································			
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6701 Aberdeen Avenue, Suite 9 155 McCutcheon, Suite H

Lubbock, Texas 79424 El Paso, Texas 79932

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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 Vacuum F-35 SWD

Project Name: Project Number:

Vacuum F-35 SWD

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

Work Order: 6080430 Vacuum F-35 SWD

Page Number: 2 of 13 Lea County,NM

Analytical Report

Sample: 98076 - Monitor Well #1

Analysis: Alkalinity OC Batch: 28900 Prep Batch: 25245

Analytical Method: SM 2320B Date Analyzed: 2006-08-10 Sample Preparation: 2006-08-10 Prep Method: N/A Analyzed By: LJ Prepared By:

Parameter	Flag	Result	Units	Dilution	. KL
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** 28800 QC Batch: Prep Batch: 25183

Analytical Method: S 8021B Date Analyzed: 2006-08-08 Sample Preparation: 2006-08-08

S 5030B Prep Method: Analyzed By: MTPrepared By: MT

		RL			
Parameter	Flag	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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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 QC Batch: 28886 Prep Batch: 25206

Analytical Method: S 6010B Date Analyzed: 2006-08-10 Sample Preparation: 2006-08-09

RL

Prep Method: S 3005A Analyzed By: TP Prepared By:

Parameter	Flag	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 QC Batch: 28875 Prep Batch: 25189

Analytical Method: E 300.0 Date Analyzed: 2006-08-08 Sample Preparation: 2006-08-07

Prep Method: N/A Analyzed By: WB Prepared By: WB

Vacuum F-35 SWD

Work Order: 6080430 Vacuum F-35 SWD Page Number: 3 of 13 Lea County,NM

		RL			
Parameter	Flag	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 QC Batch: 28836 Prep Batch: 25194 Analytical Method: SM 2540C
Date Analyzed: 2006-08-09
Sample Preparation: 2009-08-08

Prep Method: N/A Analyzed By: SM Prepared By: SM

Sample: 98077 - Monitor Well #2

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

		RL			
Parameter	Flag	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 QC Batch: 28800 Prep Batch: 25183 Analytical Method: S 8021B
Date Analyzed: 2006-08-08
Sample Preparation: 2006-08-08

Prep Method: S 5030B Analyzed By: MT Prepared By: MT

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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

Vacuum F-35 SWD

Work Order: 6080430 Vacuum F-35 SWD

Page Number: 4 of 13 Lea County,NM

Sample: 98077 - Monitor Well #2

Analysis: QC Batch: Cations 28886

Analytical Method:

Date Analyzed:

S 6010B 2006-08-10 Prep Method: Analyzed By:

S 3005A TP

TS

Prep Batch: 25206

Sample Preparation:

2006-08-09

Prepared By:

RΤ

		KL.			*
Parameter	Flag	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: Prep Batch: 25189

28875

Date Analyzed: Sample Preparation:

2006-08-08 2006-08-07

Analyzed By: Prepared By:

WB WB

RL

		:			
Parameter	Flag	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: QC Batch: TDS 28836 Analytical Method:

SM 2540C 2006-08-09 Prep Method: Analyzed By:

N/A SM

Prep Batch: 25194

Date Analyzed: Sample Preparation:

2009-08-08

Prepared By:

SM

ВI

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

Method Blank (1)

Prep Batch: 25183

QC Batch: 28800

QC Batch:

28800

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

MT MT

MDL

Parameter	Flag	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

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

continued ...

Vacuum F-35 SWD

Work Order: 6080430 Vacuum F-35 SWD Page Number: 5 of 13 Lea County,NM

method blank continued Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery		overy mits
-Bromofluorobenzene (4-BFB)		0.0904	mg/L	1	0.100	90		- 113
<u> </u>								
Method Blank (1) QC Bato	ch: 28836							
QC Batch: 28836		Date Anal	•	06-08-09			yzed By:	SM
Prep Batch: 25194		QC Prepar	ration: 20	06-08-08		Prep	ared By:	SM
				MDL				
Parameter	Fla	ag		Result	Uı	nits		R
Total Dissolved Solids			<	< 5.000	m	g/L](
		•						
Method Blank (1) QC Bato	ch: 28875							
QC Batch: 28875		Date Anal	vzed: 200	06-08-08		Anal	yzed By:	WE
Prep Batch: 25189		QC Prepar		06-08-07			ared By:	WE
			MD	, ſ				
Parameter	Flag		Resu		Units	S		R
Chloride	2 1118		< 0.018		mg/L			0.
					-			
Sulfate			<0.048	5	mg/L	·		0.3
Method Blank (1) QC Bato QC Batch: 28886	ch: 28886	Date Ana QC Prepa	lyzed: 20	06-08-10 06-08-09	mg/I	Ana	alyzed By: pared By:	T
Method Blank (1) QC Bato QC Batch: 28886		QC Prepa	lyzed: 20	06-08-10 06-08-09 MDL		Ana Prej		TF TS
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206	ch: 28886 Fla	QC Prepa	lyzed: 20 iration: 20	06-08-10 06-08-09 MDL Result	Ŭ	Ana Prep nits		TF TS
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium		QC Prepa	lyzed: 20 tration: 20	06-08-10 06-08-09 MDL Result 0.0950	<u>U</u>	Ana Prep nits g/L		TF TS
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium		QC Prepa	lyzed: 20 tration: 20	06-08-10 06-08-09 MDL Result	U m m	Ana Prep nits ng/L g/L		
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium		QC Prepa	lyzed: 20 tration: 20	06-08-10 06-08-09 MDL Result 0.0950 <0.377	U m m m	Ana Prep nits g/L		TF TS R1 0.
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium	Fla	QC Prepa	lyzed: 20 tration: 20	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704	U m m m	Ana Prep nits g/L g/L g/L		TH TS R 0.
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium Method Blank (1) QC Bate		QC Prepa	lyzed: 20 tration: 20	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704 <0.261	U m m m	Ana Prep nits g/L g/L g/L g/L	pared By:	TF TS R) 0. 1 1 1 1
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium Method Blank (1) QC Bate QC Batch: 28900	Fla	QC Prepa	lyzed: 20 pration: 20 <	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704 <0.261	U m m m	Ana Prep nits g/L g/L g/L g/L	pared By:	TF TS RJ 0 1 1 1 1
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium Method Blank (1) QC Bate	Fla	QC Prepa	lyzed: 20 pration: 20 <	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704 <0.261	U m m m	Ana Prep nits g/L g/L g/L g/L	pared By:	TF TS R.I. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium Method Blank (1) QC Bate QC Batch: 28900	Fla	QC Prepa Date Ana QC Prepa	alyzed: 20 alyzed: 20 aration: 20 MD	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704 <0.261	U m m m	Ana Prep nits g/L g/L g/L g/L Pre	pared By:	TF TS R. 0. 11 11 11 11 11 11 11 11 11 11 11 11 11
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium Method Blank (1) QC Bate QC Batch: 28900 Prep Batch: 25245	Fla	QC Prepa Date Ana QC Prepa	alyzed: 20 aration: 20 Alyzed: 20 aration: 20 MD: Resu	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704 <0.261	U m m m	Ana Prep inits g/L g/L g/L g/L	pared By:	TF TS R) 0. 1 1 1 1
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium Method Blank (1) QC Bate QC Batch: 28900 Prep Batch: 25245 Parameter Hydroxide Alkalinity	Fla	QC Prepa Date Ana QC Prepa	alyzed: 20 aration: 20 Alyzed: 20 Aration: 20 MD: Resu <1.0	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704 <0.261	Units mg/L as C	Ana Prep Inits Ig/L Ig/L Ig/L Ig/L Ana Pre	pared By:	TF TS R1 0. 1 1 L. R1
Method Blank (1) QC Bate QC Batch: 28886 Prep Batch: 25206 Parameter Dissolved Calcium Dissolved Potassium Dissolved Magnesium Dissolved Sodium Method Blank (1) QC Bate QC Batch: 28900	Fla	QC Prepa Date Ana QC Prepa	alyzed: 20 aration: 20 Alyzed: 20 aration: 20 MD: Resu	06-08-10 06-08-09 MDL Result 0.0950 <0.377 <0.704 <0.261	U m m m	Ana Prep Inits Ig/L Ig/L Ig/L Ig/L Ana Pre SaCo3 CaCo3	pared By:	TF TS R.I. 1. 1. 1. L

Vacuum F-35 SWD

Work Order: 6080430 Vacuum F-35 SWD

Page Number: 6 of 13 Lea County,NM

Duplicates (1)

QC Batch:

28836

Prep Batch: 25194

Date Analyzed:

2006-08-09

QC Preparation: 2006-08-08 Analyzed By: SM

Prepared By: SM

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	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: QC Preparation: 2006-08-10

2006-08-10

Analyzed By: LJ Prepared By: LJ

,	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	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	0.1-00	< 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.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	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

Vacuum F-35 SWD

Work Order: 6080430 Vacuum F-35 SWD

Page Number: 7 of 13 Lea County,NM

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:

28875 25189 Date Analyzed: QC Preparation: 2006-08-08

2006-08-07

Analyzed By: WB WB Prepared By:

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	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.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	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.

	LCSD			Spike	Matrix		Rec.		RPD
Param .	Result	Units	Dil.	Amount	Result	Rec.	Limit	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

Xylene

Prep Batch: 25183

Date Analyzed:

mg/L

2006-08-08 QC Preparation: 2006-08-08

0.300

< 0.000348

Analyzed By: MT Prepared By: MT

83.8 - 109

98

MS Spike Matrix Rec. Result Units Dil. Amount Result Limit Param Rec. Benzene 0.102 mg/L 1 0.100 < 0.000305 102 80.8 - 117 Toluene 0.101 0.100 101 mg/L 1 < 0.000497 85 - 113 0.101 0.100101 80.5 - 112 Ethylbenzene mg/L 1 < 0.000294

1

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

0.295

Vacuum F-35 SWD

Work Order: 6080430 Vacuum F-35 SWD

Page Number: 8 of 13 Lea County, NM

		MSD	•		Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	I	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.

		MS	MSD			Spike	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	5	0.101	ŅA	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

Spiked Sample: 98079 Matrix Spike (MS-1)

QC Batch:

28875

Date Analyzed:

2006-08-08

Analyzed By: WB

Prep Batch:

25189

QC Preparation:

2006-08-07

Prepared By: WB

MS Spike Matrix Rec. Param Result Units Dil. Amount Result 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.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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

TS

Prepared By:

MS Spike Matrix Rec. Param Result Units Dil. Amount Result 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 61.2 - 135 Dissolved Magnesium 85.2 mg/L 1 50.0 49.3 72 7 Dissolved Sodium 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.

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

Vacuum F-35 SWD

Work Order: 6080430 Vacuum F-35 SWD

Page Number: 9 of 13 Lea County,NM

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	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

			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

			CCVs	CCVs	CCVs	Percent	
	•		True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

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

Report Date: August 24, 2006 Vacuum F-35 SWD Work Order: 6080430 Vacuum F-35 SWD Page Number: 10 of 13 Lea County,NM

Standard (ICV-1)

QC Batch: 28875

Date Analyzed: 2006-08-08

Analyzed By: WB

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

			ICVs	ICVs	ICVs	Percent	
		•	True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

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

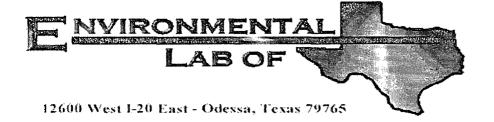
Work Order: 6080430 Vacuum F-35 SWD

August 24, 2006 Re Va

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Prof. Name Name Scientist New Mexico	Contact Person:					7	·;	i	; ;						(0	08/50						·				ρ
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Cation-Anion Balance Sheet

				-	÷	Percentage	Error	10,38380939	8,152480824			
	EC	uMHOs/cm				Anions	in med/L	64.05	10.80			
	TDS	ppm	2680	723		Cations	in meq/L	57.73	96'6			
	Bromide	uudd				Fluoride Bromide	in meq/L	0	0	TDS/Anion	0.42	29.0
	Fluoride	mdd				Fluoride	in meq/Lin meq/L	0	0	TDS/Cat	0.46	0.73
	Nitrate	mdd				Nitrate	in meq/L in meg/L	0	0	TDS/EC	#DIA/0i	#DIV/0]
	Chloride	mdd	1810	96		Chloride	in med/L	51.06	2.71			
	Sulfate	bpm	- 17	99		Suffate	in meq/L	0.35	1.37		0	0
	Alkalinity	mdd	632	336		Alkalinity	in med/L	12.64	6.72		ᅌ	2
	Potassium	ppm	14.2	5.26		Potassium	in meq/L	0.36	0.13		0	0
	Sodium	bbm	1010	35.9		Sodium	in meq/L	43.94	1.56		range	range
	Calcium Magnesium	ррт	55.3	17.3		Magnesium	in meq/L	4.55	1.42	EC/Anion	6405.404	1080.228
8/24/2006	Calcium	mdd	178	137		Calcium	In med/L	8.88	6.84	EC/Cation	5773.1073	995.61178
DATE:	Sample #		98076	22086		Sample #		98076	98077		98076	22086



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

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

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

				0 01 10					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J27015-0	1) Water								
Benzene	0.462	0.00100	mg/L	j	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.489	0.00100	11	"	If	n	**	nt.	
Ethylbenzene	0.230	0.00100	**	II.	v	n	#	н	
Xylene (p/m)	0.305	0.00100	n	"	и	"	и	н	
Xylene (o)	0.135	0.00100		"	11	*	Ħ	n	
Surrogate: a,a,a-Trifluorotoluene		138 %	80-12	0	"	,,	"	"	S-0-
Surrogate: 4-Bromofluorobenzene		108 %	80-12	0	"	n .	"	n	
F-35 SWD Monitor Well #2 (6J27015-02	2) Water								
Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	ND	0.00100	и	11		и	n	· ·	
Ethylbenzene	ND	0.00100	"	"	**	v			
Xylene (p/m)	ND	0.00100	11	. "	н	n	n	,,	
Xylene (o)	ND	0.00100	**	"	"	n	11	**	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-12	0	"	,,	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-12	0	n	n	"	"	
G-35 SWD Monitor Well #1 (6J27015-0	3) Water								
Benzene	0.394	0.00500	mg/L	5	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.0204	0.00500	41	**	,,	*	"	**	
Ethylbenzene	0.0774	0.00500	н	н	ь	,,		**	
Xylene (p/m)	0.0177	0.00500	н	н		•	н	**	
Xylene (o)	0.0261	0.00500	*	"	n	п	**	D:	
Surrogate: a,a,a-Trifluorotoluene		94.5 %	80-12	0	11	77	n	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-12	0	"	"	"	"	
G-35 SWD Monitor Well #2 (6J27015-0	4) Water								
Benzene	ND	0.00100	mg/L	1	EJ63104	10/31/06	11/01/06	EPA 8021B	
Toluene	0.00308	0.00100	*	"	D	".		le .	
Ethylbenzene	ND	0.00100	**	н	n	**	p	n	
Xylene (p/m)	ND	0.00100	н .	D.	н	H	0	H	
Xylene (o)	ND	0.00100	н	n	н	н	u	**	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-12	0	. "	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-12	0	"	"	"	п	

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J27015-01) \	Vater								
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) V	Vater								
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) V	Vater								
Γotal 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	
Fotal Dissolved Solids	2800	10.0	п	1	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	39.7	25.0	н	50	EJ62702	10/27/06	10/27/06	EPA 300.0	

Project: Vacuum G-35/ F-35 Site

122 W. Taylor Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Project Number: None Given

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	n	A l 1	14-d-3	N.
		Dilait	Ollits	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6.	J2/015-01) Water								
Calcium	192	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	49.2	0.360	"	10	"	"	*1	v	
Potassium	6.45	0.600	#	н		*1	**	'n	
Sodium	816	10.8	H	250	"	*	b	"	
F-35 SWD Monitor Well #2 (6J	J27015-02) Water								
Calcium	111	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	17.5	0.360	н	10	"	*	,,	н	
Potassium	2.85	0.600		"	11		•	u	
Sodium	32.8	0.430	*	"	#	п	ii	H	
G-35 SWD Monitor Well #1 (6	J27015-03) Water								
Calcium	49.2	0.810	mg/L	10	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	8.36	0,360		"	н	•	ч	н	
Potassium	1.53	0.600		и		n	п	0	
Sodium	8.18	0.430	**	11	н	•	"	v	
G-35 SWD Monitor Well #2 (6	J27015-04) Water								
Calcium	50.9	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	18.3	0.360	"	10	и	,,	и	"	
Potassium	9.76	0.600	**	"	n	,,	H	"	,
Sodium	908	10.8	**	250	r.			n	

Project: Vacuum G-35/ F-35 Site

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control Environmental Lab of Texas

New										
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	11							
Xylene (p/m)	ND	0.00100								
Xylene (o)	ND	0.00100	n							
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: 1	0/31/06 A	nalyzed: 11	/01/06			
Benzene	51.6		ug/l	50.0		103	80-120			
Toluene	45.6		n	50.0		91.2	80-120			
Ethylbenzene	46.4		"	50.0		92.8	80-120			
Xylene (p/m)	88.7		n,	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)	Sou	rce: 6J23009-	02	Prepared: 1	0/31/06 A	nalyzed: 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	н	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			

Project: Vacuum G-35/F-35 Site

Spike

Source

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

RPD

%REC

Organics by GC - Quality Control Environmental Lab of Texas

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EJ63104 - EPA 5030C (GC)										
Matrix Spike Dup (EJ63104-MSD1)	Sour	rce: 6J23009-)2	Prepared: 1	0/31/06 A	nalyzed: 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	11	0.0500	ND	106	80-120	0.948	20	
Xylene (p/m)	0.105	0.00100	11	0.100	ND	105	80-120	1.89	20	
Xylene (o)	0.0442	0.00100	n	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			

Project: Vacuum G-35/ F-35 Site

Project Number: None Given

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 (V	VetChem)								•	
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	19	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		n	10.0		112	80-120			
Duplicate (EJ62702-DUP1)	Sou	rce: 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)	Sou	rce: 6J27017-	05	Prepared &	Analyzed:	10/27/06				
Sulfate	223	25.0	mg/L		226		***	1.34	20	
Chloride	1310	25.0	n		1330			1.52	20	
Matrix Spike (EJ62702-MS1)	Sour	rce: 6J26011-0	02	Prepared &	Analyzed:	10/27/06				
Sulfate	369	12.5	mg/L	250	129	96.0	80-120			-
Chloride	934	12.5	10	250	645	116	80-120			
Matrix Spike (EJ62702-MS2)	Sou	rce: 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			

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

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EJ63006 - Filtration Prepara	tion			**************************************						
Blank (EJ63006-BLK1)				Prepared: 1	0/30/06 A	nalyzed: 10	/31/06			
Total Dissolved Solids	ND	10.0	mg/L	~	-					
Duplicate (EJ63006-DUP1)	Source	ee: 6J27015-0)1	Prepared: 1	10/30/06 A	nalyzed: 10	/31/06			
Total Dissolved Solids	2860	10.0	mg/L		3190			10.9	5	R
Duplicate (EJ63006-DUP2)	Sour	ce: 6J27017-0)3	Prepared: 1	10/30/06 A	nalyzed: 10	/31/06			
		10.0			1910			18.3	5	R
Total Dissolved Solids	1590	10.0	mg/L		1910			10.5	,	
Total Dissolved Solids Batch EJ63107 - General Preparation Blank (EJ63107-BLK1)		10.0	mg/L	Prepared &		10/31/06		16,5		
Batch EJ63107 - General Preparatio		2.00	mg/L	Prepared &		10/31/06		18.3		
Batch EJ63107 - General Preparation Blank (EJ63107-BLK1) Total Alkalinity	on (WetChem)							18.5		
Batch EJ63107 - General Preparation	on (WetChem)				: Analyzed:		85-115	18.5		
Batch EJ63107 - General Preparation Blank (EJ63107-BLK1) Total Alkalinity LCS (EJ63107-BS1)	ND	2.00	mg/L	Prepared &	: Analyzed:	10/31/06	85-115	18.3		
Batch EJ63107 - General Preparation Blank (EJ63107-BLK1) Total Alkalinity LCS (EJ63107-BS1) Total Alkalinity Duplicate (EJ63107-DUP1)	ND	2.00	mg/L	Prepared &	Analyzed:	10/31/06	85-115	1.87	20	
Batch EJ63107 - General Preparation Blank (EJ63107-BLK1) Total Alkalinity LCS (EJ63107-BS1) Total Alkalinity	on (WetChem) ND 196 Sour	2.00 2.00 ce: 6J27015-1	mg/L mg/L	Prepared & 200 Prepared &	Analyzed: Analyzed: Analyzed:	10/31/06 98.0 10/31/06	85-115			

Project: Vacuum G-35/ F-35 Site

122 W. Taylor

Hobbs NM, 88240

Project Number: None Given

Fax: (505) 397-1471

Project Manager: Kristin Farris-Pope

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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		п	2.00		104	85-115			
Potassium	1.80		n	2.00		90.0	85-115			
Sodium	1.98		. "	2.00		99.0	85-115			
Duplicate (EK60223-DUP1)	Sou	rce: 6J27015-0	01	Prepared &	Analyzed:	11/02/06				
Calcium	186	4.05	mg/L		192			3.17	20	
Magnesium	49.6	0.360	p		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 Manager: Vacuum G-35/ F-35 Site
Project Number: None Given
Project Manager: Kristin Farris-Pope

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. Analyte DETECTED DET 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

	Kaland KJulis		
Report Approved By:	70000110110	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

Odessa, Texas 79765 12600 West I-20 East

Phone: 432-563-1800 Fex: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

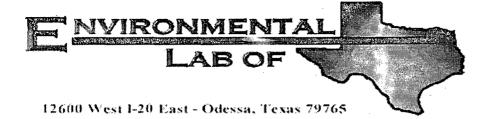
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To a company

TAT brebnet2 \times × × (slubarto&-sn9) TAT H2US Vacuum F-35 SWD and G-35 SWD T17S-R35E-Sec 35 F/G, Lea County NM <u>()</u> shilos baviassiQ isto × MAON Custody Seale: Contentity (Temperature Upon Receipt) Sample Containers Intact? Laboratory Comments: × BLLEX 8051B/2030 Labels on conteiner? 95 gH 45 (O K) 56 gA 36 (2001 HC03) HC03 × × 1.5 9001 9001 PISION 17815 3Hd Ogusa (sbecouk): NOS Project Number: PLEASE Email RESULTS TO: kpope@riceswd.com; mfranks@riceswd.com Project Name: Date PO Number: Project Loc: × JERNE PA × Other (Specify) Mone (1) 1 Liter HDPE NOSZŁ Fax No: (505) 397-1471 HOPN HCI (S) 40 w) dises vials N N N EONH × × က No. of Containers က 15:45 16:10 14:40 9:45 Time Sampled Received by ELOT kpope@riceswd.com 10/25/2006 10/24/2006 10/24/2006 10/25/2006 Received by: Date Sampled Bampler Signsture: Rozanne Johnson (505) 631-9310 rozanne@velornet.com 10-27-06 12:45 1 city/State/Zip: Hobbs, New Mexico 88240 company Name RICE Operating Company Email: 10zanne@valornet.com Company Address: 122 W. Taylor Street Project Manager: Kristin Farris Pope Date Date FIELD CODE G-35 SWD Monitor Well #1 G-35 SWD Monitor Well #2 F-35 SWD Monitor Well #2 F-35 SWD Monitor Well #1 Telephone No: (505) 393-9174 Special Instructions: Relinquished by lab use only

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

Client: Rice Dp.				
Date/ Time: 1020 00 2-45				
Lab ID#: 45270 15				
Initials:			-	
Sample Receipt	t Checklist			
#1 Temperature of container/ cooler?	Yes	No	1 (S °C	Client Initials
	Y95	No		
	Yes	No	Not Dragget	
#3 Custody Seals intact on shipping container/ cooler?			Not Present	
#4 Custody Seals intact on sample bottles/ container?	y es	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)?	Yeş	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	Ø∕ess .	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Ægs	No		
#11 Containers supplied by ELOT?	Yes	No		
#12 Samples in proper container/ bottle?	Yes	No`	See Below	
#13 Samples properly preserved?	¥ęs	No	See Below	
#14_Sample bottles intact?	₹ es	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)?	Ve₃s	No	See Below	
#18 All samples received within sufficient hold time?	Tes	No	See Below	
#19 VOC samples have zero headspace?	(Pes	No	Not Applicable	
Variance Docu	ımentation			
Contact: Contacted by:		-	Date/ Time:	
Deposition				
Regarding:				
	· · · · · · · · · · · · · · · · · · ·			
Corrective Action Taken:				
Check all that Apply: See attached e-mail/ fax				
Client understands and wou	ild like to pro	ceed with	analysis	
Cooling process had begun			•	
	- · - · - · · · · · · · · · · · · · · ·	P19		



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

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

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

Ameliate	Dla	Reporting	Heir-		n :				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
F-35 SWD Monitor Well #1 (6J27015-0	01) Water								
Benzene	0.462	0.00100	mg/L	1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	0.489	0.00100	••	u	u	н	п	"	
Ethylbenzene	0.230	0.00100	"	n	u	n	н	"	
Xylene (p/m)	0.305	0.00100	h	10	H	rr .	u	D	
Xylene (o)	0.135	0.00100	+		n	**	0	•	
Surrogate: a,a,a-Trifluorotoluene		138 %	80-	120	"	,,	" .	n	S-0
Surrogate: 4-Bromofluorobenzene		108 %	80-	120	"	"	"	"	
F-35 SWD Monitor Well #2 (6J27015-0	2) Water								
Benzene	ND	0.00100	mg/L	.1	EJ63104	10/31/06	10/31/06	EPA 8021B	
Toluene	ND	0.00100		**	**	п	н	w	
Ethylbenzene	ND	0.00100	·. •	,,	**	11	, "	**	
Xylene (p/m)	ND	0.00100	n	n		n	n	H.	
Xylene (o)	ND	0.00100	"	u	n	U		w	
Surrogate: a,a,a-Trifluorotoluene		87.0 %	80-	120	"	,,	"	10	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-	120	n	r	"	n	
G-35 SWD Monitor Well #1 (6J27015-0	03) Water								
Benzene	0.394	0.00500	mg/L	5	EJ63104	10/31/06	10/31/06	EPA 8021B	·
Toluene	0.0204	0.00500	**		н			n	
Ethylbenzene	0.0774	0.00500					**	"	
Xylene (p/m)	0.0177	0.00500	11	**	W	n	H	н	
Xylene (o)	0.0261	0.00500	**	11		n .		fg.	
Surrogate: a,a,a-Trifluorotoluene		94.5 %	80-	120	"	"	"	19	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-	120	"	"	"	"	
G-35 SWD Monitor Well #2 (6J27015-0	04) Water								
Benzene	ND	0.00100	mg/L	I	EJ63104	10/31/06	11/01/06	EPA 8021B	
Toluene	0.00308	0.00100	"	H		**	н	n	
Ethylbenzene	ND	0.00100	н	н	10	н	н	**	
Xylene (p/m)	ND	0.00100	H	n		н	41	•	
	ND	0.00100	**	,,		"		n-	
Xylene (o)	110								
Xylene (0) Surrogate: a,a,a-Trifluorotoluene	- No	86.8 %	80-	120	"	"	"	"	

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

	C.	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (6J270	15-01) Water								
Total Alkalinity	432	2.00	mg/L	1	EJ63107	10/31/06	10/31/06	EPA 310.1M	
Chloride	1460	25.0	u	50	EJ62702	10/27/06	10/27/06	EPA 300.0	
Total Dissolved Solids	3190	10.0	н	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 (6J270	15-02) 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	11	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 (6J270	15-03) Water		-						
Total Alkalinity	476	2.00	mg/L	i	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 (6J270	15-04) 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		i	EJ63006	10/30/06	10/31/06	EPA 160.1	
Sulfate	22.8	2.50	ır	5	EJ62702	10/27/06	10/27/06	EPA 300.0	

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 (6.				Ditution	Daten	Trepared	Analyzeu	Method	Notes
r-35 SWD Monnor Well #1 (0.	J2/015-01) Water								
Calcium	192	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	49.2	0.360	"	10	21	**	ь	**	
Potassium	6.45	0.600	"	,,	10	•	11	n	
Sodium	816	10.8	н	250	"	,,	и	¥f	
F-35 SWD Monitor Well #2 (6.	J27015-02) Water				_				
Calcium	111	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	17.5	0.360	, n	10	и	n	11	U	
Potassium	2,85	0.600	п	"	11	•	и	ч	
Sodium	32.8	0.430	•	11	"	n	n	и	
G-35 SWD Monitor Well #1 (6	J27015-03) Water								
Calcium	50.9	4.05	mg/L	50	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	18.3	0.360	•	10	**	•	u	**	
Potassium	9.76	0.600		"	р	,	11	п	
Sødium	908	10.8	•	250	"	н	u	h	
G-35 SWD Monitor Well #2 (6	J27015-04) Water								
Calcium	49.2	0.810	mg/L	10	EK60223	11/02/06	11/02/06	EPA 6010B	
Magnesium	8.36	0.360	**	n	п	*	H	**	
Potassium	1.53	0.600	•	"	n	•	P	11	
Sodium	8.18	0.430	11	ч	"	"	**	D	

Project: Vacuum G-35/ F-35 Site

Project Number: None Given

122 W. Taylor Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	n							
Xylene (o)	ND	0.00100	.,							
Surrogate: a,a,a-Trifluorotoluene	36.2	10000	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	11	0.0500		112	80-120			
Ethylbenzene	0.0545	0.00100		0.0500		109	80-120			
Xylene (p/m)	0.118	0.00100	u	0.100		118	80-120			
Xylene (o)	0.0512	0.00100	н	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: 1	0/31/06 A	nalvzed: 1	1/01/06			
Benzene	51.6		ug/l	50.0		103	80-120			
Toluene	45.6		n	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)	Sou	rce: 6J23009-	02	Prepared: 1	0/31/06 A	nalyzed: 1	1/01/06			
Benzene	0.0575	0.00100	mg/L	0.0500	ND	115	80-120			
l'oluene	0.0530	0.00100	"	0.0500	ND	106	80-120			
Ethylbenzene	0.0524	0.00100	"	0.0500	ND	105	80-120			
Kylene (p/m)	0.107	0.00100	**	0.100	ND	107	80-120			
Kylene (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			

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

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

Batch EJ63104 - EPA 5030C (GC)

Matrix Spike Dup (EJ63104-MSD1)	Sour	rce: 6J23009-	02	Prepared: 1	0/31/06 A	nalyzed: 1	1/01/06		
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		

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**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EJ62702 - General Preparation (V	VetChem)				*			-		
Blank (EJ62702-BLK1)				Prepared &	Analyzed:	10/27/06				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	n							
LCS (EJ62702-BS1)				Prepared &	z 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)	Sou	rce: 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	
Ouplicate (EJ62702-DUP2)	Sou	rce: 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)	Sou	rce: 6J26011-	02	Prepared &	Analyzed:	10/27/06				
Sulfate	369	12.5	mg/L	250	129	96.0	80-120	-		
Chloride	934	12.5	IF	250	645	116	80-120			
Matrix Spike (EJ62702-MS2)	Sou	rce: 6J27017-	05	Prepared &	Analyzed:	10/27/06				
Sulfate	716	25.0	mg/L	500	226	98.0	80-120			
Chloride	1930	25.0	и	500	1330	120	80-120			

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EJ63006 - Filtration Preparation	n									
Blank (EJ63006-BLK1)				Prepared: 1	10/30/06 A	nalyzed: 10	/31/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EJ63006-DUP1)	Sour	ce: 6J27015-	91	Prepared: I	10/30/06 A	nalyzed: 10	/31/06			
Total Dissolved Solids	2860	10.0	mg/L		3190		-	10.9	5	R2
Dunlianta (E162006 DUD2)	Sour	ce: 6J27017-0)3	Prepared: 1	10/30/06 A	nalyzed: 10	/31/06			
Duplicate (EJ63006-DUP2)	5047									
Total Dissolved Solids	1590	10.0	mg/L		1910			18.3	5	R2
	1590	10.0	nig/L		1910			18.3	5	R2
Total Dissolved Solids	1590	10.0	mg/L	Prepared &		10/31/06		18.3	5	. R2
Total Dissolved Solids Batch EJ63107 - General Preparation	1590	2.00	mg/L	Prepared &		10/31/06		18.3	5	
Total Dissolved Solids Batch EJ63107 - General Preparation (Blank (EJ63107-BLK1)	1590 (WetChem)			Prepared &	2 Analyzed:			18.3	5	R2
Total Dissolved Solids Batch EJ63107 - General Preparation (Blank (EJ63107-BLK1) Total Alkalinity	1590 (WetChem)				2 Analyzed:		85-115	18.3	5	R2
Total Dissolved Solids Batch EJ63107 - General Preparation (Blank (EJ63107-BLK1) Total Alkalinity LCS (EJ63107-BS1)	1590 (WetChem) ND	2.00	mg/L	Prepared &	2 Analyzed: 2 Analyzed:	10/31/06	85-115		5	R2
Total Dissolved Solids Batch EJ63107 - General Preparation (Blank (EJ63107-BLK1) Total Alkalinity LCS (EJ63107-BS1) Total Alkalinity	1590 (WetChem) ND	2.00	mg/L	Prepared &	2 Analyzed: 2 Analyzed:	10/31/06	85-115		20	R
Total Dissolved Solids Batch EJ63107 - General Preparation (Blank (EJ63107-BLK1) Total Alkalinity LCS (EJ63107-BS1) Total Alkalinity Duplicate (EJ63107-DUP1)	1590 (WetChem) ND 196 Source	2.00 2.00 ce: 6J27015-	mg/L mg/L	Prepared &	2 Analyzed: 2 Analyzed: 2 Analyzed: 432	10/31/06 98.0 10/31/06	85-115			R2

Project: Vacuum G-35/ F-35 Site

122 W. Taylor

Project Number: None Given

Fax: (505) 397-1471

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

		Reporting		Spike	Source		%REC	B 500	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	и							
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		11	2.00		90.0	85-115			
Sodium	1.98		"	2.00		99.0	85-115			
Duplicate (EK60223-DUP1)	Sou	rce: 6J27015-0	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	h .		6.45			3.95	20	
Sodium	801	10.8	11		816			1.86	20	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240
Project Manager: Vacuum G-35/F-35 Site
Fax: (505) 397-1471
None Given
Kristin Farris-Pope

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 dry Sample results reported on a dry weight basis RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

	Kaland KJulis		
Report Approved By:	Zanan Cho	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.

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Environmental Lab of Texas

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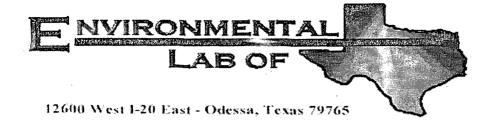
Phone: 432-563-1800 Fax: 432-683-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

TAT brebnat2 \times (9lubario2-arg) TAT HRUR Vacuum F-35 SWD and G-35 SWD T17S-R35E-Sec 35 F/G, Lea County NM Custody Seals: Containing Cooper × × Total Dissolved Solids × N.O.R.W. K35 Sample Containers Intact? Laboratory Comments: × 0EUS/81/2009 X3118 PERSONAL MAN DES CALOT POR HIG SE **204' CO3' HCO3** × () 'EN 'EN 2.3 Time SOOT BOOT METOR Other (specify): Project Number: PLEASE Email RESULTS TO: kpope@riceswd.com; mfranks@riceswd.com Project Name: ationes Oafe Project Loc: PO Number: × × THE PARTY Officer (Specify) BOOK PROT L (1) BURN POSZH Fax No: (505) 397-1471 HONN aksiv aasatg kn OP (S) KOH HMO^P × × × No. of Containers 15:45 16:10 14:40 9:45 Time Sampled Received by ELOT kpope@riceswd.com 10/24/2006 10/25/2006 10/24/2006 10/25/2006 Received by: Date Sampled Bampler Bignature: Rozanne Johnson (505) 631-9310 rozanne@valornet.com 2.45 Tine Tima city/State/Zip: Hobbs, New Mexico 88240 Company Name, RICE Operating Company Email: rozanne@vvalornet.com Company Address: 122 W. Taylor Street Project Manager: Kristin Farris Pope 10-27-01 Date Date FIELD CODE G-35 SWD Monitor Well #2 F-35 SWD Monitor Well #2 G-35 SWD Monitor Well #1 F-35 SWD Monitor Well #1 Telephone No: (505) 393-9174 Special Instructions: Refinquished by (ab use only) 4

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

	Client Initial
·	, Client Initial
	Client Initial
	, Client Initial
	Client Initial
	Client Initial
	Client Initial
No	1.5 °C
No	,
No	Not Present
No	Not Present
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No	ID written on Cont./ Lid
No	Not Applicable
No	
No	
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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

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.

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	31		n	и	11	**	
Ethylbenzene	ND	0.00100	"	11	n	"	и	U	
Xylene (p/m)	ND	0.00100	"	"	**	tr	*	"	
Xylene (o)	ND	0.00100	**	**	н	n .	n	19	
Surrogate: a,a,a-Trifluorotoluene		128 %	80-1	20	"	"	n	"	S-04
Surrogate: 4-Bromofluorobenzene		93.2 %	80-1	20	"	"	n	n	
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	u	•	н	σ	*1	i+	
Ethylbenzene	ND	0.00100	**	**		m .	er.	11	
Xylene (p/m)	ND	0.00100		**	"		,,	19	
Xylene (o)	ND	0.00100	"	71	н	н	н	*	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %	80-1	20	"	"	"	**	

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 (6L070	12-01) Water	· · · · · · · · ·			-				
Total Alkalinity	184	2.00	mg/L	1	EL60807	12/07/06	12/07/06	EPA 310.1M	<u> </u>
Chloride	80.1	5.00	**	10	EL60801	12/07/06	12/07/06	EPA 300.0	
Total Dissolved Solids	450	10.0		i	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 (6L070	012-02) 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	11	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	

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

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	11	**	н	,,	
Potassium	3.24	0,600		"	**			u	
Sodium	78.4	2.15		50	n	n	n	n	
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	п	n	μ	п	
Potassium	5.33	0.600	n	u	н	n	11	H	
Sodium	242	2.15	**	50	n	n	n	H.	

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

		Reporting		Spike	Source	0/275	%REC	220	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EL61404 - EPA 5030C (GC)				····						
Blank (EL61404-BLK1)				Prepared &	Analyzed:	12/14/06				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	**							
Xylene (p/m)	ND	0.00100	11							
Xylene (o)	ND	0.00100	n							
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: 1	2/14/06 A	nalyzed: 12	/15/06			
Benzene	54.4		ug/l	50.0		109	80-120			
Toluene	55.1		,,	50.0		110	80-120			
Ethylbenzene	59.3		н	50.0		119	80-120			
Xylene (p/m)	116		11	100		116	80-120			
Xylene (o)	58.7		n	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)	Sou	ırce: 6L05006-	10	Prepared 1	2/14/06 A	nalyzed: 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	н	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	n	0.0500	ND	88.88	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.6		ug/l	40.0		81.5	80-120			
Surrogaie: 4-Bromofluorobenzene	38.7		"	40.0		96.8	80-120			

Rice Operating Co.

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

122 W. Taylor

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control Environmental Lab of Texas

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

Matrix Spike Dup (EL61404-MSD1)	Sou	Source: 6L05006-10			Prepared: 12/14/06 Analyzed: 12/18/0				
Benzene	0.0422	0.00100	mg/L	0.0500	ND	84.4	80-120	4.85	20
Toluene	0.0446	0.00100	10	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	U	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		

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

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

Project Number: None Given Project Manager: Kristin Farris-Pope

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

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

		Reporting		Spike	Source		70KEC		KrD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch EL60801 - General Preparation (V	VetChem)								·		
Blank (EL60801-BLK1)	•			Prepared &	& Analyzed	12/08/06					
Chloride	ND	0.500	mg/L								
Sulfate	0.623	0.500	и .								
LCS (EL60801-BS1)				Prepared &	k 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)	Sou	rce: 6L07005-	01	Prepared &	& Analyzed	12/08/06					
Sulfate	13.4	2.50	mg/L		13.4			0.00	20		
Chloride	129	2.50	н		130			0.772	20		
Matrix Spike (EL60801-MS1)	Sou	rce: 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	H	50.0	130	118	80-120				
Batch EL60803 - Filtration Preparation											
Blank (EL60803-BLK1)				Prepared:	12/07/06 A	nalyzed: 12	2/08/06				
T . 10' 1 10''	\ II	10.0	/1								

Blank (EL60803-BLK1)				Prepared: 12/07/06 Analyzed: 12/08/06	
Total Dissolved Solids	ND	10.0	mg/L		

Duplicate (EL60803-DUP1)		6L07005-01	Prepared: 12/07/06 Analyzed: 12/08/06		
Total Dissolved Solids	266	10.0 mg/		7.81	20

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

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL60807 - General Preparatio	n (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)	Sourc	e: 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			

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

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

Project Number: None Given Project Manager: Kristin Farris-Pope

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

Anolista	Danish	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Ours	Level	Result	70KEC	Linns	KrD	Limit	Notes
Batch EL60805 - 6010B/No Digestion										
Blank (EL60805-BLK1)				Prepared: 1	12/08/06 A	nalyzed: 12	/11/06			_
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	н							
Potassium	ND	0.0600	и							
Sodium	ND	0.0430	rr .							
Calibration Check (EL60805-CCV1)				Prepared: 1	12/08/06 A	nalyzed: 12	/11/06			
Calcium	2.02	<u> </u>	mg/L	2.00		101	85-115			
Magnesium	2.03		**	2.00		102	85-115			
Potassium	1.77		11	2.00		88.5	85-115			
Sodium	2.00		n	2.00		100	85-115			
Duplicate (EL60805-DUP1)	Sou	rce: 6L07012-	01	Prepared: 1	12/08/06 A	nalyzed: 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	17		78.4			6.86	20	

Rice Operating Co.

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

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. В Analyte is found in the associated blank as well as in the sample (CLP B-flag). DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported dry Sample results reported on a dry weight basis RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike Duplicate Dup

	Kaland	K. March		
Report Approved By:	Lauric		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.

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Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa Texas 79765

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	Company Name	RICE Operating Company	ing Col	mpai	2					ļ						Pro	Project#:	#			1		j			ĺ		.
	Company Address:	122 W. Taylor Street	or Stree	إي								j		ļ	Ф.	Project Loc: 1178-R35E-Sec35 F&G - Lea County New Mexico	Ę		78-R	35E-	Sec3	F&C	- 1	S	unty	lew A	texico	}
	City/State/Zip:	Hobbs, New Mexico 88240	Mexico	, 882	40		, ,							,			PO #											ļ
	Telephone No:	(505) 393-9174	74				Fax No:	(5()5)	(505) 397-1471	147	<u>-</u>	'	~ 	Report Format:	Form	iat:	×	X Standard	ndar	77		TRRP	5		Z	☐ NPDES	
	Sampler Signature. Rozanne Johnson (505)631-9310	Rozanne Johnson	(505)631-	-9310	+		e-mail:	2	gur	rozanne@valornet.com	valc	TILE	i.c	E E	Ī				Į	Š	Analista Cor	Š	į			ı	-	
(lab c	(lab use only))	4	SEX													TOTAL			<u> </u>	1			\vdash	51	
띪	ORDER#: UPCV (U	7	.32				1			Preserv	Preservation & # of Containers	± Col	itainets	M	Matrix	861		_	<u> </u>	as	-	08					4 ST ,8	Γ
(Alno esu del) # 59		י. מטט מ		eginning Depth) rttqeO gnibn	Dalqms8 ats0	baldmaS amiT	eld Filtered otal #. of Containers	90	HOO2	*0S*H	HOsp	Va ₂ S ₂ O ₃	Other (Specify) Drinking Warer SL-Sludge	* Groundwarer S-SoullSolid P-Mon-Potable Specify Other	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9001 XT 3001 XT :H9	Sations (Ca. Mg. Na, K)	PB/ESP/CEC	Metals: As Ag Ba Cd Cr Pb Hg	volatiles	semivolatiles STEX 8021B/5030 or BTEX 82	SCI	.M.R.O.I	Total Dissolved Solids		84 ,155 (glubsgb2-snq) TAT H2UF	TAT brebnst
	F-35 SWD Moni	Well #3		а	1	12/4/200B	10.45			+	+	+	+-		≥		+-	-	+	f .	+	+		1	$\mid \times$	+	↓ _	3 ×
10	G-35 SWD Monitor Well #3	Well #3				12/4/2006	12:20	က	×	2			 `	-	GV.		1	+	_		1	×	-		×	╁	-	×
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Spec	Special Instructions:									\dashv			\dashv					og	Laboratory Comments	၂၀		- je	4			\dashv	_	
	Please email to	to: kpope@riceswd.com	ceswd.c	mo		mfranks@riceswd.com	wd.com	roz	anne	rozanne@valomet.com	lom.	et.co	Ē		ζ.	TIEVE		amp	Sample Containers Intact? VOCs Free of Headspace?	ntain	eads	itact pace	%		030		zz	
Rozanne	and Johnson	- u	Date 12-7-66	1.00 1.00 1.00 1.00	Time 13	Received by:					-			Date	·	Time		abell usto	Castody seals on container(s) Custody seals on container(s) Custody seals on cooler(s)	sorita als o	ner()	s) Itaine	(S)				Z Z Z	
Relim	Relinquished by:		Date	F	Time	Received by:								Date		Time	<u> </u>	E S	Sample Hand Delivered by Sample Police NPS	5 8 P	elive	ered It Rep. UPS	H			T No. 40 K	N N Lone Star	ă
Relin	Refinquished by:		Date	F	Time	Received by ELOT:	(1002	(`			-	Date		Time (C, C)		emb	Temperature Upon Receipt	Ž.Č e	P 69	ecei		13	<i>i</i>	24	ပ္	13 + 11

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client	Alt Op.				
Date/ Time:	12/1/10/10:50				
Lab ID#	(PL07012				
Initials	CK-				
	Sample Receip	t Chaablict			
	Sample Receip	CHECKISE		C	lient Initials
	rature of container/ cooler?	Yes	No	-2.0 °C	
#2 Shippin	g container in good condition?	₹ es	No		
#3 Custody	y Seals intact on shipping container/ cooler?	X+€s	No	Not Present	
#4 Custody	y Seals intact on sample bottles/ container?	€ s	No	Not Present	
	of Custody present?	⊁es	No		
#6 Sample	e instructions complete of Chain of Custody?	(es	No		
	of Custody signed when relinquished/ received?	¥ e s	No		
	of Custody agrees with sample label(s)?	Væs	No	ID written on Cont./ Lid	
	ner label(s) legible and intact?	Xes .	No	Not Applicable	
	e matrix/ properties agree with Chain of Custody?	∑e ş	No	110t / philoabic	
	iners supplied by ELOT?	/es	No		
	es in proper container/ bottle?	Yes,	No	See Below	
	les properly preserved?	\ /es	No	See Below	
	le bottles intact?	∦es	No	See below	
II			·	 	
	rvations documented on Chain of Custody?	- Ces	No.	 	
h ————	iners documented on Chain of Custody?	Yes_	No		
	ent sample amount for indicated test(s)?	/es	No	See Below	
#18 All sar	mples received within sufficient hold time?	Yes	No	See Below	
#19 Subco	intract of sample(s)?	Yes	No	Not Applicable	
#20 VOC 5	ontract of sample(s)? samples have zero headspace?	Yes	No	Not Applicable	
\$ 1.50 miles	Variance Doc	umentation			
Contact.	Contacted by:			Date/ Time:	
 _ Regarding: ■					
'arrective (Action Taken:				
	ACROIL LANCIL				
heck all th	nat Apply: See attached e-mail/ fax				
	Client understands and wo	ould like to pro	ceed with	analysis	
	Cooling process had begu				

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