AP - <u>45</u>

ANNUAL MONITORING REPORT

YEAR(S): 2004

2004 Annual Groundwater Monitoring Report EME P-6 Line Leak Site T20S, R36E, Section 6, Unit Letter P Lea County, New Mexico



MARCH 22, 2005



CERTIFIED MAIL RETURN RECIEPT NO. 7099 3400 0017 1737 2503

March 22, 2005

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

RE: 2004 ANNUAL MONITORING WELL REPORT EME P-6 LINE LEAK T20S-R36E-Section 6, Unit Letter P NMOCD CASE # 1R0422

Mr. Price:

Trident Environmental takes this opportunity to submit the 2004 Annual Monitoring Well Report for the <u>EME</u> <u>P-6 line leak site</u> located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. One monitoring well (P6-1) was installed in January 2002 during the delineation of the line leak. For further delineation, a downgradient monitoring well (M5-1) at a neighboring site, and upgradient well (P6-2) were installed in December 2003 and February 2004, respectively. These wells are sampled quarterly pursuant to NMOCD guidelines. In 2005, Trident Environmental will sample these wells and Environmental Lab of Texas of Odessa will continue to conduct laboratory analysis of the water samples.

Trident Environmental submitted an update to the Corrective Action Plan on March 16, 2005.

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

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me at (423) 638-3106 or Kristin Farris Pope at (505) 393-9174.

Sincerely,

Tillet of Vien Devention

Gilbert J. Van Deventer, REM, PG, NMCS Trident Environmental - Project Manager

enclosures:

Summary table & graphs, analytical results, maps

cc: LBG, CDH, KFP, file, Chris Williams - NMOCD, District I Office (Hobbs)

MAPS

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TABLES AND GRAPHS

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EME P-6 Line Leak Site T20S-R36E-Sec6P

Table 1 Summary of Groundwater Sampling Results EME P-6 Line Leak Site

Monitoring Well	Sample Date	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
	01/10/02	10700	999	20248	< 0.002	< 0.002	< 0.002	< 0.006	36.70	3522.32
	05/14/02	8060	852	18200	< 0.001	< 0.001	< 0.001	< 0.001	36.73	3522.29
	08/15/02	9570	646	16900	< 0.001	< 0.001	< 0.001	< 0.001	36.95	3522.07
	11/06/02	9040	952	17400	< 0.001	< 0.001	< 0.001	< 0.001	37.15	3521.87
1	02/27/03	8860	741	15000	< 0.001	< 0.001	< 0.001	< 0.001	37.12	3521.90
	05/29/03	8680	858	20000	< 0.001	< 0.001	< 0.001	< 0.001	37.19	3521.83
P6-1	08/21/03	8860	683	17800	< 0.001	< 0.001	< 0.001	< 0.001	37.43	3521.59
	11/19/03	8690	619	18500	< 0.001	< 0.001	< 0.001	< 0.001	37.64	3521.38
	02/20/04	8510	830	16600	< 0.001	< 0.001	< 0.001	< 0.001	37.84	3521.18
1	05/06/04	8510	756	17400	< 0.001	< 0.001	< 0.001	< 0.001	37.36	3521.66
1	08/10/04	9040	889	17200	< 0.001	< 0.001	< 0.001	< 0.001	37.03	3521.99
	11/09/04	9130	1220	17600	< 0.001	< 0.001	< 0.001	< 0.001	36.28	3522.74
	02/07/05	8210	1870	17800	< 0.001	< 0.001	< 0.001	< 0.001	<u>33.</u> 54	3526.11
	02/20/04	9040	1260	19700	< 0.001	< 0.001	< 0.001	< 0.001	37.97	3521.68
	05/06/04	8330	1340	16100	< 0.001	< 0.001	< 0.001	< 0.001	37.29	3522.36
P6-2	08/10/04	8240	1220	15400	< 0.001	< 0.001	< 0.001	< 0.001	36.97	3522.68
	11/09/04	7670	1280	15700	< 0.001	< 0.001	< 0.001	< 0.001	35.83	3523.82
	02/07/05	7030	1860	15300	< 0.001	< 0.001	< 0.001	< 0.001	32.76	3526.89
	12/11/03	6198	99.8	10784	< 0.002	< 0.002	< 0.002	< 0.006	33.28	3521.13
	02/20/04	5320	454	14500	< 0.002	< 0.002	< 0.002	< 0.006	33.37	3521.04
M5.1	05/06/04	5940	420	12400	< 0.002	< 0.002	< 0.002	< 0.006	32.79	3521.62
1413-1	08/10/04	6910	470	17300	< 0.001	< 0.001	< 0.001	< 0.001	32.52	3521.89
1	11/09/04	7090	614	14000	< 0.001	< 0.001	< 0.001	< 0.001	31.63	3522.78
	02/07/05	6710	1450	13200	< 0.001	< 0.001	< 0.001	< 0.001	28,85	3525.56
WOCC S	andards	250	600	1000	0.01	0.75	0.75	0.62		

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

Analyses performed by Environmental Lab of Texas, Odessa, TX.

Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards. AMSL - Above Mean Sea Level; BTOC - Below Top of Casing

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





EME P-6 Line Leak Site T20S-R36E-Sec6P





LABORATORY REPORTS

AND

CHAIN OF CUSTODY DOCUMENTATION



Analytical Report

Prepared for:

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

Project: EME System P-6 Line Leak Site Project Number: None Given Location: T20S, R37E, Sec 6, Unit Letter P

Lab Order Number: 4E07003

Report Date: 05/13/04

Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P6-1	4E07003-01	Water	05/06/04 12:10	05/07/04 08:05
P6-2	4E07003-02	Water	05/06/04 11:15	05/07/04 08:05

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

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		P Project Ni Project Ma	roject: EN umber: No unager: Kr	IE System I ne Given istin Farris	P-6 Line Le	ak Site		Fax: (505 Rep 05/13/) 397-1471 orted: 04 09:25
	<u></u>	Or	ganics b	y GC					
n		Environn	nental L	ab of To	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4E07003-01) Water		······							
Benzene	ND	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B	······
Toluene	ND	0.00100	"	"		"		и	
Ethylbenzene	ND	0.00100	"	"	**	"	"	"	
Xylene (p/m)	ND	0.00100	"	*		"	"	"	
Xylene (0)	ND	0.00100	"	"	n	n	"	"	
Surrogate: a,a,a-Trifluorotoluene	+ + + + + + + + + + + + + + + +	117 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-1	20	"	"	"	"	
P6-2 (4E07003-02) Water									
Benzene	ND	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B	
Toluene	ND	0.00100	"	"	и	53	**	н	
Ethylbenzene	ND	0.00100	•		n	"	"	п	
Xylene (p/m)	ND	0.00100		"	н	"	"	"	
Xylene (o)	ND	0.00100		"	n		н	"	
Surrogate: a,a,a-Trifluorotoluene	<u> </u>	113 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-1	20	"	"	"	"	

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

Quality Assurance Review

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	Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
	122 W. Taylor	Project Number:	None Given	Reported:
1	Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:25

General Chemistry Parameters by EPA / Standard Methods

		Environn	nental l	Lab of To	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4E07003-01) Water		<u></u>							<u> </u>
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	224	2.00	**	n	"	11	11	**	
Hydroxide Alkalinity	ND	0.100	**	n	"	n			
Chioride	8510	5.00	*	п	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	17400	5.00	"	"	EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	756	5.00	и	10	EE41114	05/11/04	05/11/04	EPA 375.4	
P6-2 (4E07003-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	240	2.00	*		n	"	"	n	
Hydroxide Alkalinity	ND	0.100	"	"	n	"	"		
Chloride	8330	5.00	"	"	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	16100	5.00	n		EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	1340	12.5	"	25	EE41114	05/11/04	05/11/04	EPA 375.4	

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Quality Assurance Review

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:25

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4E07003-01) Water									
Calcium	1820	10.0	mg/L	1000	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	626	0.100	۳	100	"	н	*	п	
Potassium	80.1	0.500	n	10	"	"	"	*	
Sodium	4280	10.0	"	1000	"	n	**	"	
P6-2 (4E07003-02) Water									
Całcium	1760	10.0	mg/L	1000	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	651	0.100	"	100	н	11	"	н	
Potassium	89.4	0.500		10	"		"	"	
Sodium	5000	10.0		1000	**		"	н	

Environmental Lab of Texas

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Quality Assurance Review

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Rice Operating Co.		Р	roject: E	ME System P-	-6 Line Lea	k Site			Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: N	one Given					Repo	orted:
Hobbs NM, 88240		Project Ma	nager: K	ristin Farris			_		05/13/0	4 09:25
	0	rganics by	GC - (Quality Co	ontrol					
		Environn	nental]	Lab of Tex	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE41103 - EPA 5030C (GC)										
Blank (EE41103-BLK1)				Prepared &	Analyzed:	05/07/04				
Benzene	ND	0.00100	mg/L							····
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100								
Xylene (0)	ND	0.00100	n							
Surrogate: a,a,a-Trifluorotoluene	23.2		ug/l	20.0		116	80-120	·····		<u> </u>
Surrogate: 4-Bromofluorobenzene	19.7		"	20.0		98.5	80-120			
LCS (EE41103-BS1)				Prepared &	Analyzed:	05/07/04				
Benzene	91.9		ug/l	100		91.9	80-120			
Toluene	101			100		101	80-120			
Ethylbenzene	102			100		102	80-120			
Xylene (p/m)	210		"	200		105	80-120			
Xylene (o)	106		*	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.6		t	20.0	- <u></u>	103	80-120			
Surrogate: 4-Bromofluorobenzene	23.5		"	20.0		118	80-120			
Calibration Check (EE41103-CCV1)				Prepared &	Analyzed:	05/07/04				
Benzene	85.5		ug/l	100		85.5	80-120			
Foluene	95.5			100		95.5	80-120			
Ethylbenzene	91.2		**	100		91.2	80-120			
Kylene (p/m)	194			200		97.0	80-120			
Xylene (o)	96.5		н	100		96.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.3	·····	"	20.0		86.5	80-120	·		
Surrogate: 4-Bromofluorobenzene	23.7		"	20.0		118	80-120			
Duplicate (EE41103-DUP1)	Sou	rce: 4E07001-6	01	Prepared &	Analyzed:	05/07/04	_			
Benzene	ND	0.00100	mg/L		ND				20	
Toluene	ND	0.00100	•		ND				20	
Ethylbenzene	ND	0.00100	*		ND				20	
(ylene (p/m)	ND	0.00100	"		ND				20	
(ylene (o)	ND	0.00100			ND				20	
urrogate: a,a,a-Trifluorotoluene	23.5		ug/l	20.0		118	80-120			
'urrogate: 4-Bromofluorobenzene	21.4		*	20.0		107	80-120			

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Quality Assurance Review

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:25

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 EE41103 - EPA 5030C (GC)

Matrix Spike (EE41103-MS1)	Source: 4H	07001-02	Prepared &			
Benzene	86.2	ug/l	100	ND	86.2	80-120
Toluene	96.9	"	100	ND	96.9	80-120
Ethylbenzene	92.9	"	100	ND	92.9	80-120
Xylene (p/m)	196	"	200	ND	98.0	80-120
Xylene (o)	96.7	"	100	ND	96.7	80-120
Surrogate: a,a,a-Trifluorotoluene	20.8	N	20.0		104	80-120
Surrogate: 4-Bromofluorobenzene	23.3	"	20.0		116	80-120

Environmental Lab of Texas

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Quality Assurance Review

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Rice Operating Co.	Project: EME System P-6 Line Leak Site								Fax: (505) 397-147	
122 W. Taylor		Project Nu	umber: N	one Given					Reported:	
Hobbs NM, 88240		Project Ma	nager: K	ristin Farris					05/13/04 09:25	
General C	hemistry Para	meters by Environn	/ EPA / nental]	Standard	Methoo kas	ls - Qua	lity Con	trol		<u> </u>
		Reporting		Spike	Source		%REC	<u> </u>	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE40709 - General Preparation (WetChem)									
Blank (EE40709-BLK1)	Prepared & Analyzed: 05/07/04									
Chloride	ND	5.00	mg/L							
Matrix Spike (EE40709-MS1)	Sour	ce: 4E06007-	4E06007-02 Prepared & Analyzed: 05/07/04							
Chloride	514	5.00	mg/L	250	270	97.6	80-120			
Matrix Spike Dup (EE40709-MSD1)	Sour	ce: 4E06007-	-02	Prepared & Analyzed: 05/07/04						
Chloride	514	5.00	mg/L	250	270	97.6	80-120	0.00	20	
Reference (EE40709-SRM1)				Prepared &	Analyzed:	05/07/04				
Chloride	4780		mg/L	5000		95.6	80-120			
Batch EE40710 - General Preparation (WetChem)									
Blank (EE40710-BLK1)	<u></u>			Prepared &	Analyzed:	05/07/04				
Carbonate Alkalinity	ND	0,100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
lydroxide Alkalinity	ND	0.100	"							
Calibration Check (EE40710-CCV1)				Prepared &	Analyzed:	05/07/04				
Carbonate Alkalinity	0.0454		mg/L	0.0500		90.8	80-120			
Duplicate (EE40710-DUP1)	Sourc	e: 4E06007-	02	Prepared &	Analyzed:	05/07/04				
Carbonate Alkalinity	0.00	0.100	mg/L	·····	0.00				20	
licarbonate Alkalinity	174	2.00	"		173			0.576	20	
Ivdroxide Alkalinity	0.00	0.100	"		0.00				20	

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Quality Assurance Review

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME System P-6 Line Leak Site Project Number: None Given Project Manager: Kristin Farris							Fax: (505) 397-1471 Reported: 05/13/04 09:25		
General Cl	nemistry Para	ameters by Environn	EPA / ental]	Standard	l Methoo xas	ls - Qua	lity Con	trol		
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE41102 - General Preparation (WetChem)									
Blank (EE41102-BLK1)				Prepared: (05/07/04 A	nalyzed: 05	/11/04			
otal Dissolved Solids	ND	5.00	mg/L							
Duplicate (EE41102-DUP1)	Sou	rce: 4E07001-	01	Prepared: ()5/07/04 A	nalyzed: 05	/11/04			
fotal Dissolved Solids	1450	5.00	mg/L		1440			0.692	20	
Batch EE41114 - General Preparation (VetChem)					_	`			
Blank (EE41114-BLK1)				Prepared &	: Analyzed:	05/11/04				
ulfate	ND	0.500	mg/L					. <u> </u>		
Calibration Check (EE41114-CCV1)				Prepared &	: Analyzed:	05/11/04				•
ulfate	50.9		mg/L	50.0		102	80-120			
Duplicate (EE41114-DUP1)	Sou	rce: 4E06007-4	D 2	Prepared &	Analyzed:	05/11/04				
ulfate	270	2 50	ma/l		274			1 47	20	

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Quality Assurance Review

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	Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
	122 W. Taylor	Project Number:	None Given	Reported:
ľ	Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:25

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 EE41104 - General Preparation (Metals)									
Blank (EE41104-BLK1)				Prepared: ()5/10/04 A	nalyzed: 05	/11/04			
Calcium	ND	0.0100	mg/L	Jan						
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	**							
Sodium	ND	0.0100	"							
Calibration Check (EE41104-CCV1)				Prepared: 0	5/10/04 A	nalyzed: 05	/11/04			
Calcium	1.98		mg/L	2.00		99.0	85-115			
Magnesium	2.12			2.00		106	85-115			
Potassium	1.83		n	2.00		91.5	85-115			
Sodium	1.72		۳	2.00		86.0	85-115			
Duplicate (EE41104-DUP1)	Sou	rce: 4E07001-	01	Prepared: 0	5/10/04 Ar	nalyzed: 05	/11/04			
Calcium	24.4	0.100	mg/L		24.5			0.409	20	
Magnesium	4.18	0.00100	"		4.18			0.00	20	
Potassium	18.7	0.500			18.4			1.62	20	
Sodium	557	1.00	**		557			0.00	20	

Environmental Lab of Texas

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Quality Assurance Review

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project: Project Number: Project Manager:	EME System P-6 Line Leak Site None Given Kristin Farris	Fax: (505) 397-1471 Reported: 05/13/04 09:25		
		Notes and De	finitions			
DET	Analyte DETECTED					
ND	Analyte NOT DETECTED at or above the reporting lim	it				
NR	Not Reported					
iry	Sample results reported on a dry weight basis					
RPD	Relative Percent Difference					

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Quality Assurance Review

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Analytical Report

Prepared for:

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

Project: EME System M-5 SWD Site Project Number: None Given Location: T20S, R37E, Sec 5, Unit Letter M

Lab Order Number: 4E07004

Report Date: 05/13/04

ſ	Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
	122 W. Taylor	Project Number:	None Given	Reported:
	Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:26

ANALYTICAL REPORT FOR SAMPLES

i.

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
M5-1	4E07004-01	Water	05/06/04 13:20	05/07/04 08:05

Rice Operating	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 882	Project Manager:	Kristin Farris	05/13/04 09:26

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
M5-1 (4E07004-01) Water										
Benzene	ND	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B		
Toluene	ND	0.00100		61	41	Ħ	n	**		
Ethylbenzene	ND	0.00100	n	**	**	H	n	"		
Xylene (p/m)	ND	0.00100		۳		*		"		
Xylene (0)	ND	0.00100			"	n	"			
Surrogate: a,a,a-Trifluorotoluene		110 %	80-120)	"	"	n	*		
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120)	n	n	"	"		

Environmental Lab of Texas

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Quality Assurance Review

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:26

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Anaiyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1 (4E07004-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	210	2.00		"	н	"	"	n	
Hydroxide Alkalinity	ND	0.100	"	"	n	"	"	**	
Chloride	5940	5.00	"	"	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	12400	5.00			EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	420	5.00	"	10	EE41114	05/11/04	05/11/04	EPA 375.4	

Environmental Lab of Texas

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Quality Assurance Review

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:26

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1 (4E07004-01) Water									
Calcium	2110	10.0	mg/L	1000	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	565	0.100	"	100	*	H	"	"	
Potassium	56.0	0.500	"	10	"	10	n	n	
Sodium	2520	10.0	"	1000	"	N	n		

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Quality Assurance Review

Page 4 of 10

Rice Operating Co.		P	roject: E	ME System N	1-5 SWD Si	ite			Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: N	one Given					Repo	rted:
Hobbs NM, 88240		Project Ma	nager: K	ristin Farris					05/13/0	4 09:26
	0	rganics by	GC - (Quality Co	ontrol					
		Environm	ental]	Lab of Te	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE41103 - EPA 5030C (GC)										
Blank (EE41103-BLK1)				Prepared &	: Analyzed:	05/07/04				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	n							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	23.2	· · · · · · · · · · · · · · · · · · ·	ug/l	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	19.7		"	20.0		98.5	80-120			
LCS (EE41103-BS1)				Prepared &	Analyzed:	05/07/04				
Benzene	91.9		ug/l	100		91.9	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	102			100		102	80-120			
Xylene (p/m)	210		"	200		105	80-120			
Xylene (o)	106			100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.6		"	20.0	· · · · · · · · · · · · · · · · · · ·	103	80-120	···	·····	
Surrogate: 4-Bromofluorobenzene	23.5		"	20.0		118	80-120			
Calibration Check (EE41103-CCV1)				Prepared &	Analyzed:	05/07/04				
Benzene	85,5		ug/l	100	<u></u>	85.5	80-120			
Toluene	95.5		п	100		95.5	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	194		н	200		97.0	80-120			
Xylene (0)	96.5			100		96.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.3		"	20.0		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	23.7		"	20.0		118	80-120			
Duplicate (EE41103-DUP1)	Sou	rce: 4E07001-()1	Prepared &	Analyzed:	05/07/04		<u> </u>		
Benzene	ND	0.00100	mg/L		ND				20	
Toluene	ND	0.00100	"		ND				20	
Ethylbenzene	ND	0.00100			ND				20	
Xylene (p/m)	ND	0.00100	"		ND				20	
Xylene (0)	ND	0.00100	"		ND				20	
Surrogate: a,a,a-Trifluorotoluene	23.5		ug/l	20.0		118	80-120			<u> </u>
Surrogate: 4-Bromofluorobenzene	21.4		"	20.0		107	80-120			
								`		

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Quality Assurance Review

Page 5 of 10

Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	05/13/04 09:26

Organics by GC - Quality Control

Environmental Lab of Texas

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

Batch EE41103 - EPA 5030C (GC)

Matrix Spike (EE41103-MS1)	Source: 4	Source: 4E07001-02			Prepared & Analyzed: 05/07/04			
Benzene	86.2	ug/l	100	ND	86.2	80-120		
Toluene	96.9	"	100	ND	96.9	80-120		
Ethylbenzene	92.9		100	ND	92.9	80-120		
Xylene (p/m)	196		200	ND	98.0	80-120		
Xylene (o)	96.7		100	ND	96.7	80-120		
Surrogate: a,a,a-Trifluorotoluene	20.8	"	20.0		104	80-120		
Surrogate: 4-Bromofluorobenzene	23.3	"	20.0		116	80-120		

Environmental Lab of Texas

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Quality Assurance Review

Page 6 of 10

Rice Operating Co.		P	roject: E	ME System M	-5 SWD Si	ite			Fax: (505)	397-1471
122 W. Taylor		Project Ni	mber: N	one Given					Repo	rted:
Hobbs NM, 88240		Project Ivia	nager. K	ristin Farris					05/13/0	4 09:26
General C	hemistry Para	meters by	EPA /	Standard	Metho	ds - Qua	lity Con	trol		
······································		Environn	iental]	Lab of Tex	(AS				••••	
4 . 1 .		Reporting	.	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE40709 - General Preparation (WetChem)									
Blank (EE40709-BLK1)				Prepared &	Analyzed:	05/07/04				
Chloride	ND	5.00	mg/L							
Matrix Spike (EE40709-MS1)	Sour	ce: 4E06007-	-02	Prepared &	Analyzed:	05/07/04				
Chloride	514	5.00	mg/L	250	270	97.6	80-120			
Matrix Spike Dup (EE40709-MSD1)	Sour	ce: 4E06007-	-02	Prepared &	Analyzed:	05/07/04				
Chloride	514	5.00	mg/L	250	270	97.6	80-120	0.00	20	
Reference (EE40709-SRM1)				Prepared &	Analyzed:	05/07/04				
Chloride	4780		mg/L	5000		95.6	80-120			
Batch EE40710 - General Preparation (V	WetChem)									
Blank (EE40710-BLK1)				Prepared &	Analyzed:	05/07/04				
Carbonate Alkalinity	ND	0.100	mg/L						·	
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	**							
Calibration Check (EE40710-CCV1)				Prepared &	Analyzed:	05/07/04				
Carbonate Alkalinity	0.0454		mg/L	0.0500		90,8	80-120			
Duplicate (EE40710-DUP1)	Source	:e: 4E06007-	02	Prepared &	Analyzed:	05/07/04				
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
icarbonate Alkalinity	174	2.00	"		173			0.576	20	
Iydroxide Alkalinity	0.00	0.100	"		0.00				20	

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Quality Assurance Review

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Rice Operating Co.		P	roject: E	ME System N	1-5 SWD Si	ite			Fax: (505)	397-1471	
122 W. Taylor		Project Nu	mber: N	one Given					Repo	rted:	
Hobbs NM, 88240	Project Manager: Kristin Farris								05/13/04 09:26		
General Cl	nemistry Para	meters by Environn	EPA /	Standard	l Methoo	is - Qua	lity Con	trol			
		Renorting		Snike	Source		%REC		RPD		
Апајуte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch EE41102 - General Preparation (V	WetChem)										
Blank (EE41102-BLK1)				Prepared: ()5/07/04 A	nalyzed: 05	/11/04				
Fotal Dissolved Solids	ND	5.00	mg/L					-			
Duplicate (EE41102-DUP1)	Sour	ce: 4E07001-	01	Prepared: 0)5/07/04 Ai	nalyzed: 05	/11/04				
Total Dissolved Solids	1450	5.00	mg/L		1440			0.692	20		
Batch EE41114 - General Preparation (V	VetChem)										
Blank (EE41114-BLK1)				Prepared &	: Analyzed:	05/11/04					
Sulfate	ND	0.500	mg/L		. <u> </u>						
Calibration Check (EE41114-CCV1)				Prepared &	Analyzed:	05/11/04					
Sulfate	50.9	····	mg/L	50.0		102	80-120				
Duplicate (EE41114-DUP1)	Sour	ce: 4E06007-	02	Prepared &	Analyzed:	05/11/04					
ulfate	270	2.50	mg/L		274			1.47	20		

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Quality Assurance Review

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME System M-5 SWD Site Project Number: None Given Project Manager: Kristin Farris							Fax: (505) 397-1471 Reported: 05/13/04 09:26		
Т	otal Metals b	oy EPA / St Environm	andard iental l	l Methods Lab of Tex	s - Quali xas	ty Cont	rol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE41104 - General Preparation (N	Metals)									
Blank (EE41104-BLK1)				Prepared: 0)5/10/04 Ai	alyzed: 05	/11/04			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500								
Sodium	ND	0.0100	"							
Calibration Check (EE41104-CCV1)				Prepared: 0	5/10/04 Ar	alyzed: 05	/11/04			
Calcium	1.98		mg/L	2.00		99.0	85-115			
Magnesium	2.12		91	2.00		106	85-115			
Potassium	1.83		"	2.00		91.5	85-115			
Sodium	1.72		"	2.00		86.0	85-115			
				- · ·						

Dupicate (EE+110+DOI I)	Sour	CC. 4E0/001-		riepared. 03/10/04 Analyzed. 03/11/04			
Calcium	24.4	0.100	mg/L	24.5	0.409	20	
Magnesium	4.18	0.00100	"	4.18	0.00	20	
Potassium	18.7	0.500	11	18.4	1.62	20	
Sodium	557	1.00	**	557	0.00	20	

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Quality Assurance Review

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Rice Op 122 W. 1 Hobbs N	erating Co. Faylor M, 88240	Project: Project Number: Project Manager:	EME System M-5 SWD Site None Given Kristin Farris	Fax: (505) 397-14' Reported: 05/13/04 09:26		
· · · · · · · · · · · · · · · · · · ·		Notes and De	finitions			
DET	Analyte DETECTED					
ND	Analyte NOT DETECTED at or above the reporting list	mit				
NR	Not Reported					
dry	Sample results reported on a dry weight basis					
RPD	Relative Percent Difference					

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Quality Assurance Review

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Analytical Report

Prepared for:

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

Project: EME System P-6 Line Leak Site Project Number: None Given Location: T20S, R37E, Sec 6, Unit Letter P

Lab Order Number: 4H12015

Report Date: 08/19/04
Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/19/04 14:47

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P6-1	4H12015-01	Water	08/10/04 15:02	08/12/04 16:45
P6-2	4H12015-02	Water	08/10/04 14:02	08/12/04 16:45

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		F Project N Project Ma	roject: EM umber: No unager: Kri	IE System I ne Given stin Farris	P-6 Line Lea	ak Site		Fax: (505) 397-1471 Reported: 08/19/04 14:47	
		Or	ganics b	y GC					
		Environ	nental L	ab of To	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4H12015-01) Water									
Benzene	ND	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	ND	0.00100	n	"	"	n	"		
Ethylbenzene	ND	0.00100	"		"	"		*	
Xylene (p/m)	ND	0.00100	"			n	"	"	
Xylene (0)	ND	0.00100	*		n	"	n	"	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-1	20	"	"	"	"	
P6-2 (4H12015-02) Water									
Benzene	ND	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	ND	0.00100	n	"	н	"	11	•	
Ethylbenzene	ND	0.00100	"	n	*	"	*	"	
Xylene (p/m)	ND	0.00100	n	**	н	"	n	"	
Xylene (0)	ND	0.00100	"	۳	"	"	"		
Surrogate: a,a,a-Trifluorotoluene		110 %	80-1	20	"	"	#	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	80-1.	20	"	**	"		

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Rice Operating Co.	Project: EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	08/19/04 14:47

General Chemistry Parameters by EPA / Standard Methods

		Environn	nental l	Lab of To	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4H12015-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M	I-02
Bicarbonate Alkalinity	232	2.00		"	n	н	"		I-02
Hydroxide Alkalinity	ND	0.100				"	"	*	I-02
Chloride	9040	5.00	"	n	EH41702	08/16/04	08/16/04	EPA 325.3M	
Total Dissolved Solids	17200	5.00	м	17	EH41711	08/15/04	08/17/04	EPA 160.1	
Sulfate	889	0.500	*	n	EH41701	08/16/04	08/16/04	EPA 375.4	
P6-2 (4H12015-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M	I-02
Bicarbonate Alkalinity	246	2.00			n	n	n	"	1-02
Hydroxide Alkalinity	ND	0.100	n	"	H	14	u	"	I-02
Chloride	8240	5.00	•		EH41702	08/16/04	08/16/04	EPA 325.3M	
Total Dissolved Solids	15400	5.00	"	н	EH41711	08/15/04	08/17/04	EPA 160.1	
Sulfate	1220	0.500	**	n	EH41701	08/16/04	08/16/04	EPA 375.4	

Environmental Lab of Texas

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	· Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/19/04 14:47

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4H12015-01) Water									
Calcium	2240	10.0	mg/L	1000	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	652	0.100		100	"	"	"	n	
Potassium	73.8	0.500	н	10	н		"	"	
Sodium	5070	10.0	м	1000	n	19	"	"	
P6-2 (4H12015-02) Water									
Calcium	1790	10.0	mg/L	1000	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	580	0.100	"	100	п		14	"	
Potassium	74.0	0.500		10	"	•	**	"	
Sodium	4690	10.0	н	1000		"	•	"	

Environmental Lab of Texas

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project Nu Project Mar	roject: El mber: No nager: Ki	ME System P- one Given ristin Farris	-6 Line Lea	ık Site			Fax: (505) Repo 08/19/0	397-1471 arted: 4 14:47
	0	rganics by	GC - (Quality Co	ontrol					
		Environm	ental l	Lab of Tex	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41804 - EPA 5030C (GC)										
Blank (EH41804-BLK1)				Prepared &	Analyzed	08/14/04				
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	22.7		ug/l	20.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	20.2		"	20.0		101	80-120			
LCS (EH41804-BS1)				Prepared &	Analyzed:	08/14/04				
Benzene	89.5		ug/l	100		89.5	80-120			
foluene	102		"	100		102	80-120			
thylbenzene	98.1		*	100		98.1	80-120			
Kylene (p/m)	205		*	200		102	80-120			
(ylene (o)	101		n	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.5		"	20.0		112	80-120	·		
Surrogate: 4-Bromofluorobenzene	22.5		~	20.0		112	80-120			
Calibration Check (EH41804-CCV1)				Prepared &	Analyzed:	08/14/04				
Benzene	83.5		ug/l	100		83.5	80-120			
oluene	91.4		"	100		91.4	80-120			
2 thy lbenzene	90.5		"	100		90.5	80-120			
Tylene (p/m)	195		"	200		97.5	80-120			
(ylene (o)	91. 8		"	100		91.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.5		"	20.0		92.5	80-120	· · · · · · · · · · · · · · · · · · ·		
urrogate: 4-Bromofluorobenzene	20.6		"	20.0		103	80-120			
Matrix Spike (EH41804-MS1)	Sou	rce: 4H13013-(02	Prepared &	Analyzed:	08/14/04				
lenzene	82.2		ug/l	100	ND	82.2	80-120			
`oluene	93.1		**	100	ND	93.1	80-120			
thylbenzene	89.4		19	100	ND	89.4	80-120			
(ylene (p/m)	188		17	200	ND	94.0	80-120			
ylene (0)	94.5		"	100	ND	94.5	80-120			
urrogate: a,a,a-Trifluorotoluene	18.5	. <u></u>	<i>n</i>	20.0		92.5	80-120			
urrogate: 4-Bromofluorobenzene	19.9	•	"	20.0		<i>99.5</i>	80-120			

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

Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/19/04 14:47

Organics by GC - Quality Control

Environmental Lab of Texas

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

Batch EH41804 - EPA 5030C (GC)

Matrix Spike Dup (EH41804-MSD1)	Source: 41	Source: 4H13013-02			Prepared & Analyzed: 08/14/04			
Benzene	81.3	ug/l	100	ND	81,3	80-120	1.10	20
Toluene	95.0	"	100	ND	95.0	80-120	2.02	20
Ethylbenzene	90.3	"	100	ND	90.3	80-120	1.00	20
Xylene (p/m)	189	"	200	ND	94.5	80-120	0.531	20
Xylene (0)	89.4	"	100	ND	89.4	80-120	5.55	20
Surrogate: a,a,a-Trifluorotoluene	19.9		20.0	<u> </u>	99.5	80-120		
Surrogate: 4-Bromofluorobenzene	20.0	#	20.0		100	80-120		

Environmental Lab of Texas

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Rice Operating Co. 122 W. Taylor Hobbs NM 88240		Project Nu Project Ma	roject: El unber: N nager: K	ME System P- one Given ristin Farris	-6 Line Lea	k Site			Fax: (505) 397-1471 Reported: 08/19/04 14:47		
General (Chemistry Para	meters by	EPA /	Standard	Method	ls - Qua	lity Con	trol		+ 14.47	
	Powlt	Reporting	Tieita	Spike	Source	9/DEC	%REC		RPD	Nata	
Analyte			Units	Level	Result	70KEC	Limits	KPD		Notes	
Batch EH41610 - General Preparation	(WetChem)	<u></u>				•••••					
Blank (EH41610-BLK1)				Prepared &	Analyzed:	08/13/04					
Carbonate Alkalinity	ND	0.100	mg/L								
licarbonate Alkalinity	ND	2.00									
lydroxide Alkalinity	ND	0,100	"								
Duplicate (EH41610-DUP1)	Source: 4H12015-01 Prepared & Analyzed: 08/13/04										
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20		
licarbonate Alkalinity	232	2.00	11		232			0.00	20		
ydroxide Alkalinity	0.00	0.100	"		0.00				20		
Reference (EH41610-SRM1)				Prepared &	Analyzed:	08/13/04					
arbonate Alkalinity	0.0530		mg/L	0.0500		106	80-120				
Batch EH41701 - General Preparation	(WetChem)										
Blank (EH41701-BLK1)				Prepared &	Analyzed:	08/16/04					
ulfate	ND	0.500	mg/L				<u></u>		····		
Calibration Check (EH41701-CCV1)				Prepared &	Analyzed:	08/16/04					
ulfate	51.0		mg/L	50.0		102	80-120	·			
Juplicate (EH41701-DUP1)	Sour	ce: 4H12014-	01	Prepared &							
ulfate	358	0.500	mg/L		322			10.6	20		
Batch EH41702 - General Preparation	(WetChem)										
lank (EH41702-BLK1)	<u></u>			Prepared &	Analyzed:	08/16/04					

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Rice Operating Co. 122 W. Taylor		Pr Project Nu	roject: Ei mber: N	ME System P one Given	-6 Line Lea	k Site			Fax: (505) Repo	397-147 rted:	
Hobbs NM, 88240		Project Mar	nager: K	ristin Farris					08/19/0	08/19/04 14:47	
General	Chemistry Para	meters by	EPA /	Standard	Method	ls - Qua	lity Con	trol	····		
]	Environm	nental]	Lab of Te	xas						
	· · · · · · · · · · · · · · · · · · ·	Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Matrix Spike (EH41702-MS1) Chloride	Sour 160	5.00	-21 mg/L	Prepared &	2 Analyzed: 65.6	08/16/04 94.4	80-120				
Chloride	160	5.00	mg/L	100	65.6	94.4	80-120				
Matrix Spike Dup (EH41702-MSD1)	Sour	ce: 4H12012-	-21	Prepared &	Analyzed:	08/16/04					
Chloride	160	5.00	mg/L	100	65.6	94.4	80-120	0.00	20		
Reference (EH41702-SRM1)				Prepared &	Analyzed:	08/16/04					
Chloride	4960		mg/L	5000		99.2	80-120				
Batch EH41711 - Filtration Preparatio	a										
Blank (EH41711-BLK1)				Prepared: 0	8/15/04 Ai	nalyzed: 08	/17/04				
Total Dissolved Solids	ND	5.00	mg/L								
Duplicate (EH41711-DUP1)	Sourc	ce: 4H12012-	01	Prepared: 0	8/15/04 Ar	nalyzed: 08	/17/04				
Total Dissolved Solids	539	5.00	mg/L		492			9.12	20		

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/19/04 14:47

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 EH41719 - 6010B/No Digestion					_						
Blank (EH41719-BLK1)				Prepared &	Analyzed:	08/17/04					
Calcium	ND	0.0100	mg/L								
Magnesium	ND	0.00100	"								
Potassium	ND	0.0500	n								
Sodium	ND	0.0100	"								
Calibration Check (EH41719-CCV1)				Prepared &	Analyzed:	08/17/04					
Calcium	2.02	·····	mg/L	2.00		101	85-115				
Magnesium	2.12		n	2.00		106	85-115				
Potassium	1.79		"	2.00		89.5	85-115				
Sodium	1.89		н	2.00		94.5	85-115				
Duplicate (EH41719-DUP1)	Sou	rce: 4H13013-	04	Prepared &	Analyzed:	08/17/04					
Calcium	36.1	0.100	mg/L		35.2			2.52	20		
Magnesium	11.3	0.0100			10.9			3.60	20		

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0.500

1.00

34.3

405

33.2

415

Environmental Lab of Texas

Potassium

Sodium

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3.26

2.44

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project: Project Number: Project Manager:	EME System P-6 Line Leak Site None Given Kristin Farris	Fax: (505) 397-1471 Reported: 08/19/04 14:47		
		Notes and De	finitions			
I-02	This result was analyzed outside of the EPA	recommended holding time	2.			
DET	Analyte DETECTED					
ND	Analyte NOT DETECTED at or above the report	ing limit				
NR	Not Reported					
dry	Sample results reported on a dry weight basis					
RPD	Relative Percent Difference					
LCS	Laboratory Control Spike					
MS	Matrix Spike					
Dup	Duplicate					

Report Approved By:

Raland K hout

8/19/04

Raland K. Tuttle, QA Officer Celey D. Keene, Lab Director, Org. Tech Director Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sara Molina, Chemist Sandra Biezugbe, Lab Tech.

Date:

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Analytical Report

Prepared for:

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

Project: EME System M-5 SWD Site Project Number: None Given Location: T20S, R37E, Sec 5, Unit Letter M

Lab Order Number: 4H13001

Report Date: 08/20/04

Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/20/04 18:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
M 5-1	4H13001-01	Water	08/11/04 10:41	08/12/04 16:45

Rice Operating Co.	Project: EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	08/20/04 18:26

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M 5-1 (4H13001-01) Water					······				
Benzene	ND	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	ND	0.00100	*	"		"		11	
Ethylbenzene	ND	0.00100		"	"		*	**	
Xylene (p/m)	ND	0.00100		"	"	*	н	"	
Xylene (o)	ND	0.00100	**	11	"	"		"	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.5 %	80-120	0	n	"	"	"	

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/20/04 18:26

General Chemistry Parameters by EPA / Standard Methods

	Environmental Lab of Texas									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
M 5-1 (4H13001-01) Water										
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M		
Bicarbonate Alkalinity	222	2.00			"	"	n			
Hydroxide Alkalinity	ND	0.100		"	H	n	"			
Chloride	6910	5.00	"		EH41702	08/16/04	08/16/04	EPA 325.3M		
Total Dissolved Solids	17300	5.00		n	EH41801	08/17/04	08/18/04	EPA 160.1		
Sulfate	470	0.500	"	"	EH41701	08/16/04	08/16/04	EPA 375.4		

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/20/04 18:26

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte M 5-1 (4H13001-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2360	10.0	mg/L	1000	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	530	0.100		100	"		"		
Potassium	44.2	0.500		10	"	"	W	"	
Sodium	2580	10.0		1000	•	"			

Environmental Lab of Texas

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Rice Operating Co.		P	roject: E	ME System M	1-5 SWD S	ite			Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: N	one Given					Repo	rted:
Hobbs NM, 88240		Project Mai	nager: K	ristin Farris					08/20/0	4 18:26
	0	rganics by	GC - 0	Quality Co	ontrol					
		Environm	ental]	Lab of Te	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH41804 - EPA 5030C (GC)										
Blank (EH41804-BLK1)				Prepared &	Analyzed:	08/14/04				
Benzene	ND	0,00100	mg/L							
Toluene	ND	0.00100	*							
• Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (0)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	22.7		ug/l	20.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	20.2		**	20.0		101	80-120			
LCS (EH41804-BS1)				Prepared &	Analyzed:	08/14/04				
Benzene	89.5									
Toluene	102		"	100		102	80-120			
Ethylbenzene	98.1		"	100		98.1	80-120			
Xylene (p/m)	205		n	200		102	80-120			
Xylene (0)	101		n	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.5		"	20.0		112	80-120			
Surrogaie: 4-Bromofluorobenzene	22.5		"	20.0		112	80-120			
Calibration Check (EH41804-CCV1)				Prepared &	Analyzed:	08/14/04				
Benzene	83.5		ug/l	100		83.5	80-120			
Toluene	91.4		"	100		91.4	80-120			
Ethylbenzene	90.5		n	100		90.5	80-120			
Xylene (p/m)	195		n	200		97.5	80-120			
Xylene (o)	91.8		"	100		91.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.5		"	20.0	-	92.5	80-120			
Surrogate: 4-Bromofluorobenzene	20.6		"	20.0		103	80-120			
Matrix Spike (EH41804-MS1)	Sou	rce: 4H13013-(02	Prepared &	Analyzed:	08/14/04				
Benzene	82.2		ug/l	100	ND	82.2	80-120			
Toluene	93.1			100	ND	93.1	80-120			
Ethylbenzene	89.4		u	100	ND	89.4	80-120			
Xylene (p/m)	188			200	ND	9 4.0	80-120			
Xylene (0)	94.5		"	100	ND	94.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.5		n	20.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.9		π	20.0		99.5	80-120			

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/20/04 18:26

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 EH41804 - EPA 5030C (GC)										
Matrix Spike Dup (EH41804-MSD1)	Sour	ce: 4H13013-4	02	Prepared &	Analyzed:	0 8 /14/04				
Benzene	81.3		ug/l	100	ND	81.3	80-120	1.10	20	
Toluene	95.0		"	100	ND	95.0	80-120	2.02	20	
Ethylbenzene	90.3			100	ND	90.3	80-120	1.00	20	

189 200 ND 94.5 Xylene (p/m) n 80-120 0.531 20 n 100 ND Xylene (o) 89.4 89.4 80-120 5.55 20 Surrogate: a,a,a-Trifluorotoluene 19.9 " 20.0 99.5 80-120 ,, Surrogate: 4-Bromofluorobenzene 20.0 20.0 100 80-120

Environmental Lab of Texas

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Rice Operating Co.		P	roject: E	ME System M	I-5 SWD Si	te			Fax: (505) 397-1471
122 W. Taylor Hobbs NM 99240		Project Ma	nager K	one Given					09/20/0	19.24
HODDS NM, 88240			K							4 18:20
General C	hemistry Para	meters by	EPA /	Standard	Method	ls - Qua	lity Con	trol		
		Environn	nental]	Lab of Tex	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch EH41610 - General Preparation (WetChem)									
Blank (EH41610-BLK1)				Prepared &	Analyzed:	08/13/04				
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
Duplicate (EH41610-DUP1)	Sour	rce: 4H12015	-01	Prepared &	Analyzed:	08/13/04		_		
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	232	2.00			232			0.00	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EH41610-SRM1)				Prepared &	Analyzed:	08/13/04				
Carbonate Alkalinity	0.0530		mg/L	0.0500		106	80-120			
Batch EH41701 - General Preparation (WetChem)									
Blank (EH41701-BLK1)				Prepared &	Analyzed:	08/16/04				
Sulfate	ND	0.500	mg/L		_			•		
Calibration Check (EH41701-CCV1)				Prepared &	Analyzed:	08/16/04				
Sulfate	51.0		mg/L	50.0		102	80-120			
Duplicate (EH41701-DUP1)	Sour	ce: 4H12014-	01	Prepared &	Analyzed:	08/16/04				
Sulfate	358	0.500	mg/L		322			10.6	20	
Batch EH41702 - General Preparation (WetChem)									
Blank (EH41702-BLK1)				Prepared &	Analyzed: (08/16/04				
	ND	5.00	ma/I	•						

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Pr Project Nu Project Mar	roject: El mber: Na nager: Ki	ME System M one Given ristin Farris	I-5 SWD Si	te			Fax: (505) Repo 08/20/0	397-1471 rted: 4 18:26
General Cl	emistry Parar	neters by Environm	EPA / ental l	Standard Lab of Tex	l Method kas	ls - Qua	lity Con	trol		
Arshire	Popult	Reporting	Linite	Spike	Source	%PEC	%REC	רופס	RPD Limit	Notes
		Lant		Lover					Link	THORES
Batch EH41702 - General Preparation (WetChem)									
Matrix Spike (EH41702-MS1)	2-MS1) Source: 4H12012-21 Prepared & Analyzed: 08/16/04									
Chloride	160	5.00	mg/L	100	65.6	94.4	80-120			
Matrix Spike Dup (EH41702-MSD1)	Sourc	e: 4H12012-	21	Prepared &	: Analyzed:	08/16/04				
Chloride	160	5.00	mg/L	100	65.6	94.4	80-120	0.00	20	
Reference (EH41702-SRM1)				Prepared &	Analyzed:	08/16/04				
Chloride	4960		mg/L	5000		99.2	80-120			
Batch EH41801 - Filtration Preparation										
Blank (EH41801-BLK1)				Prepared: 0	8/17/04 Ar	nalyzed: 08	/18/04			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EH41801-DUP1)	Sourc	e: 4H17009-	01	Prepared: 0	8/17/04 Ar	nalyzed: 08	/18/04			
Total Dissolved Solids	3900	5.00	mg/L		3910			0.256	20	

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	08/20/04 18:26

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 EH41719 - 6010B/No Digestion										
Blank (EH41719-BLK1)				Prepared &	Analyzed:	08/17/04				
Calcium	ND	0.0100	mg/L		<u> </u>		· · · ·			
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	n							
Calibration Check (EH41719-CCV1)				Prepared &	Analyzed:	08/17/04				
Calcium	2.02		mg/L	2.00		101	85-115			
Magnesium	2.12		n	2.00		106	85-115			
Potassium	1.79		"	2.00		89.5	85-115			
Sodium	1.89		**	2.00		94.5	85-115			
Duplicate (EH41719-DUP1)	Sou	rce: 4H13013-	04	Prepared &	Analyzed:	08/17/04				
Calcium	36.1	0.100	mg/L		35.2			2.52	20	
Magnesium	11.3	0.0100			10.9			3.60	20	
Potassium	34.3	0.500	*		33.2			3.26	20	
Sodium	405	1.00			415			2.44	20	

Environmental Lab of Texas

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Rice Open 122 W. Ta Hobbs NM	ating Co. ylor 1, 88240	Project: Project Number: Project Manager:	EME System M-5 SWD Site None Given Kristin Farris	Fax: (505) 397-1471 Reported: 08/20/04 18:26		
		Notes and De	finitions			
DET	Analyte DETECTED					
ND	Analyte NOT DETECTED at or above the reporting limit					
NR	Not Reported					
dry	Sample results reported on a dry weight basis					
RPD	Relative Percent Difference					
LCS	Laboratory Control Spike					
MS	Matrix Spike					
Dup	Duplicate					

Report Approved By:

Raland K houts

8/20/04

Raland K. Tuttle, QA Officer Celey D. Keene, Lab Director, Org. Tech Director Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sara Molina, Chemist Sandra Biezugbe, Lab Tech.

Date:

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Analytical Report

Prepared for:

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

Project: EME System P-6 Line Leak Site Project Number: V118P6 Location: T20S, R37E, Sec 6, Unit P Letter

Lab Order Number: 4K11008

Report Date: 11/22/04

Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	V118P6	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P6-1	4K11008-01	Water	11/09/04 16:40	11/11/04 11:00
P6-2	4K11008-02	Water	11/09/04 15:40	11/11/04 11:00

Page 1 of 11

Rice Operating Co.		P	roject: EN	IE System	P-6 Line Lea	ak Site		Fax: (505)	397-1471
122 W. Taylor		Project N	umber: Vl	18P6				Repor	rted:
Hobbs NM, 88240		Project Ma	nager: Kr	istin Farris				11/22/04	17:12
		Or	ganics b	y GC					
		Environn	nental L	ab of Te	exas				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Proparad	Applyzed	Method	Note
P6-1 (4K11008-01) Water									
Benzene	ND	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Foluene	ND	0.00100	"	"	"	*		n	
Ethylbenzene	ND	0.00100	н	н	"	W	"	19	
Xylene (p/m)	ND	0.00100	•	n	n	n	n	n	
Xylene (o)	ND	0.00100	n	**	"	N	n	n	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	80-1	20	"		n	"	
P6-2 (4K11008-02) Water									
Benzene	ND	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	н	"	"	
thylbenzene	ND	0.00100	"	*	"	n	"	n	
Kylene (p/m)	ND	0.00100		•	*	н	*1	n	
(ylene (o)	ND	0.00100	"	"	"	Ħ	"	Ħ	
Surrogate: a,a,a-Trifluorotoluene		115 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		104 %	80-1	20	"	"	"	"	

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	V118P6	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:12

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Ünits	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4K11008-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	230	2.00	"		57	n	n	"	
Hydroxide Alkalinity	ND	0.100	"	H	"	"	N	*	
Chloride	9130	5.00	H	"	EK41809	11/17/04	11/17/04	EPA 325.3M	
Total Dissolved Solids	17600	5.00	"	**	EK41206	11/11/04	11/11/04	EPA 160.1	
Sulfate	1220	12.5	n	25	EK41904	1 1/1 1/04	11/11/04	EPA 375.4	
P6-2 (4K11008-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	228	2.00	"	•	н	11	**	"	
Hydroxide Alkalinity	ND	0.100	"	"	19	n	*	"	
Chloride	7670	5.00	**	"	EK41809	11/17/04	11/17/04	EPA 325.3M	
Fotal Dissolved Solids	15700	5.00	"	"	EK41206	1 1/1 1/04	11/11/04	EPA 160.1	
Sulfate	1280	12.5	"	25	EK41904	1 1/1 1/04	11/11/04	EPA 375.4	

Environmental Lab of Texas

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	V118P6	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:12

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (4K11008-01) Water									
Calcium	1590	10.0	mg/L	1000	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	605	1.00	"	"	"	"		"	
Potassium	46.8	5.00	**	100	"	n	"		
Sodium	3680	10.0	n	1000	"	"	*	"	
P6-2 (4K11008-02) Water									
Calcium	1360	10.0	mg/L	1000	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	469	0.100	"	100		**	"		
Potassium	39.3	5.00	"			**		н	
Sodium	3170	10.0	*	1000	п				

Environmental Lab of Texas

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Rice Operating Co.		P	roject: EN	AE System P	-6 Line Lea	k Site			Fax: (505)	397-1471		
122 W. Taylor		Project Nu	mber: V1	18P6					Repo	Reported:		
Hobbs NM, 88240		Project Ma	nager: Kr	istin Farris					11/22/0	4 17:12		
	0	rganics by	GC - Q	Quality Co	ontrol							
		Environm	iental L	ab of Te	xas							
A 1	Popult	Reporting	Loita	Spike	Source	WREC	%REC		RPD	Notes		
	Kesuit			Levei	Kesuit	76REC	Linus	KFD		INDICS		
BAICH EK41502 - EFA SUSUC (GC)				D d @		11/12/04						
Blank (EK41502-BLKI)	ND	0.00100		Prepared &	z Analyzed:	11/12/04						
Benzene	ND	0.00100	mg/L									
loniene	ND	0.00100										
	ND	0.00100	n									
Xylene (p/m)	ND	0.00100	"									
	17.0											
Surrogate: a,a,a-1 rifiuorototuene	17.8		ug/i	20.0		89.0	80-120					
Surrogate: 4-Bromojtuorobenzene	19.9			20.0		99.5	80-120					
LCS (EK41502-BS1)				Prepared &	Analyzed:	11/12/04						
Benzene	106	······	ug/l	100		106	80-120					
Toluene	107			100		107	80-120					
Ethylbenzene	113			100		113	80-120					
Kylene (p/m)	237		9	200		118	80-120					
Kylene (0)	107		n	100		107	80-120					
Surrogate: a,a,a-Trifluorotoluene	20.3		"	20.0		102	80-120					
Surrogate: 4-Bromofluorobenzene	23.4		"	20.0		117	80-120					
LCS Dup (EK41502-BSD1)				Prepared &	Analyzed:	11/12/04						
Senzene	105		ug/l	100		105	80-120	0.948	20			
Foluene	106		**	100		106	80-120	0.939	20			
Ethylbenzene	113		n	100		113	80-120	0.00	20			
Kylene (p/m)	223			200		112	80-120	5.22	20			
(ylene (o)	106		"	100		106	80-120	0.939	20			
Surrogate: a,a,a-Trifluorotoluene	19.3		"	20.0		96.5 [°]	80-120					
urrogate: 4-Bromofluorobenzene	22.2		"	20.0		111	80-120					
Calibration Check (EK41502-CCV1)				Prepared &	Analyzed:	11/12/04				_		
Benzene	102		ug/l	100		102	80-120					
oluene	101		н	100		101	80-120					
thylbenzene	109		"	100		109	80-120					
(ylene (p/m)	213		"	200		106	80-120					
(ylene (o)	112		"	100		112	80-120					
urrogate: a,a,a-Trifluorotoluene	17.8	-	n	20.0		89.0	80-120					
urrogate: 4-Bromofluorobenzene	21.7		n	20.0		108	80-120					

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

Page 5 of 11

Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	V118P6	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:12

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
				a second s						

Batch EK41502 - EPA 5030C (GC)

Matrix Spike (EK41502-MS1)	Source: 41	K11005-01	Prepared &	2 Analyzed	11/12/04	
Benzene	116	ug/l	100	ND	116	80-120
Toluene	115	"	100	ND	115	80-120
Ethylbenzene	107	*	100	ND	107	80-120
Xylene (p/m)	227	"	200	ND	114	80-120
Xylene (o)	115		100	ND	115	80-120
Surrogate: a,a,a-Trifluorotoluene	21.2	"	20.0		106	80-120
Surrogate: 4-Bromofluorobenzene	21.9	"	20.0		110	80-120

Environmental Lab of Texas

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Rice Operating Co.		Р	roject: El	ME System P	-6 Line Lea	k Site			Fax: (505)	397-147
122 W. Taylor		Project Nu	mber: V	118P6					Repo	rted:
Hobbs NM, 88240		Project Manager: Kristin Farris								
General	Chemistry Para	meters by Environn	EPA /	Standard	Methoo	ls - Qua	lity Con	trol		
		Benerting		Seike			AVREC			
Analyte	Result	Limit	Units	Level	Result	%REC	%REC Limits	RPD	Limit	Notes
Batch EK41206 - Filtration Preparat	tion									
Blank (EK41206-BLK1)				Prepared &	Analyzed:	11/11/04				
Total Dissolved Solids	ND	5.00	mg/L	<u> </u>						
Duplicate (EK41206-DUP1)	Sour	ce: 4K11004	-01	Prepared &	Analyzed:	11/11/04				
Fotal Dissolved Solids	2000	5.00	mg/L		1910			4.60	20	
Blank (EK41809-BLK1)				Prepared &	Analyzed:	11/17/04				
Chloride	ND	5.00	mg/L							
Matrix Spike (EK41809-MS1)	Sour	ce: 4K11004-	01	Prepared &	Analyzed:	11/17/04				
Chloride	1220	5.00	mg/L	500	727	98.6	80-120			
Matrix Spike Dup (EK41809-MSD1)	Source	e: 4K11004-	01	Prepared &	Analyzed:	11/17/04				
Chloride	1230	5.00	mg/L	500	727	101	80-120	0.816	20	
Reference (EK41809-SRM1)				Prepared &	Analyzed:	11/17/04				
Chloride	4960		mg/L	5000		99.2	80-120			
Batch EK41814 - General Preparatio	on (WetChem)									·
Blank (EK41814-BLK1)				Prepared &	Analyzed:	11/11/04				
Carbonate Alkalinity	ND	0.100	mg/L							
licarbonate Alkalinity	ND	2.00	"							
Iydroxide Alkalinity	ND	0.100	н							

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

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Rice Operating Co.	Project: EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: V118P6	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	11/22/04 17:12

General Chemistry Parameters by EPA / Standard Methods - Quality Control

-		Environn	nental]	Lab of Te	xas					
Anghita	Pecult	Reporting	[Inite	Spike	Source	%PEC	%REC	PPD	RPD Limit	Natas
Batah FK/1914 Canaral Propagation	(WatCham)			Lever	Kesun	70KEC	Lunus			/ Notes
Duplicate (EK41814-DUP1)	(wetchem) Sour	ce: 4K11004	-01	Prepared &	Analyzed:	11/11/04			-	
Carbonate Alkalinity	0.00	0.100	mg/L		0.00	*			20	
Bicarbonate Alkalinity	161	2.00	"		160			0.623	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EK41814-SRM1)				Prepared &	Analyzed:	11/11/04				
Carbonate Alkalinity	0.0500		mg/L	0.0500		100	80-120			
Batch EK41904 - General Preparation	(WetChem)									
– Blank (EK41904-BLK1)				Prepared &	Analyzed:	11/11/04				
Sulfate	ND	0.500	mg/L							
Calibration Check (EK41904-CCV1)				Prepared &	Analyzed:	11/11/04				
Sulfate	49.3		mg/L	50.0		98.6	80-120			
Duplicate (EK41904-DUP1)	Source	e: 4K11004-	01	Prepared &	Analyzed:	11/11/04				
Sulfate	241	2.50	mg/L		238			1.25	20	

Environmental Lab of Texas

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	V118P6	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:12

Total Metals by EPA / Standard Methods - Quality Control

		Environn	nental	Lab of Te	xas					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK42201 - 6010B/No Digestion					······································					
Blank (EK42201-BLK1)				Prepared:	11/15/04 Ai	nalyzed: 11	/19/04			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	*							
Potassium	ND	0.0500	*							
Sodium	ND	0.0100	"							
Blank (EK42201-BLK2)				Prepared: 1	11/15/04 Ar	nalyzed: 11	/19/04			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100								
Potassium	ND	0.0500								
Sodium	ND	0.0100	"							
Calibration Check (EK42201-CCV1)				Prepared: 1	1/15/04 Ar	nalyzed: 11	/19/04			
Calcium	2.15		mg/L	2.00		108	85-115			
Magnesium	2.10		"	2.00		105	85-115			
Potassium	2.08		r	2.00		104	85-115			
Sodium	1.88		"	2.00		94.0	85-115			
Calibration Check (EK42201-CCV2)				Prepared: 1	1/15/04 An	nalyzed: 11	/22/04			
Calcium	1.83		mg/L	2.00		91.5	85-115			
Magnesium	1.96		"	2.00		98.0	85-115			
Potassium	1.78		"	2.00		89.0	85-115			
Sodium	1.72		н	2.00		86.0	85-115			
Duplicate (EK42201-DUP1)	Sou	rce: 4K11013-	01RE1	Prepared: 1	1/15/04 Ап	alyzed: 11.	/19/04			
Calcium	34.6	0.100	mg/L		ND				20	
Magnesium	25.6	0.0100	n		ND				20	
Potassium	4.08	0.500			ND				20	
Sodium	77.4	1.00	"		ND				20	

Environmental Lab of Texas

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Rice Operating Co.	Project: EME System P-6 Line	E Leak Site Fax: (505) 397-1471
122 W. Taylor	Project Number: V118P6	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	11/22/04 17:12

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 EK42201 - 6010B/No Digestion

Duplicate (EK42201-DUP2)	Sourc	e: 4K11004-	-01	Prepared: 11/15/04 Analyzed: 11/19/04			
Calcium	180	1.00	mg/L	179	0,557	20	
Magnesium	48.9	0.0100	11	47.2	3.54	20	
Potassium	11.7	0.500	"	9.88	16.9	20	
Sodium	283	1.00	"	268	5.44	20	

Environmental Lab of Texas

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Rice Operating Co. 122 W. Taylor		Project: EME System P-6 Line Leak Site			
		Project Number:	V118P6	Reported:	
Hobbs N	M, 88240	Project Manager:	Kristin Farris	11/22/04 17:12	
		Notes and De	finitions		
DET	Analyte DETECTED				
ND	Analyte NOT DETECTED at or above the reporting limit				
NR	Not Reported				
dry	Sample results reported on a dry weight basis				
RPD	Relative Percent Difference				
LCS	Laboratory Control Spike				
MS	Matrix Spike				
Dup	Duplicate				

Report Approved By:

Raland K truts

11/22/2004

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

Date:

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Environmental Lab of Texas

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STODY RECORD AND AMALYSIS REQUEST t Neme: EME System P-6 Line Leak Site ofect #: \\ 8 P6	ocation: T20S, R37E, Sec 6, Unit Letter P coc #: V117-1104-1	Analyze For:	TOLP: TOTAL:	Cattons (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) SAR, FEP / CEC Wetals: As Ag Ba Cd (C Pb Hg 5a Volatiles BTEA (072,030 or BTEX 8260 RCI N.O.R.M. Total Discrited Solids Total Discrited Solids Solids TAT (Pre-Schedu Standard TAT (Pre-Schedu Standard TAT (Pre-Schedu Standard TAT (Pre-Schedu Standard TAT (Pre-Schedu Standard TAT (Pre-Schedu Standard TAT (Pre-Schedu Standard TAT (Pre-Schedu Standard TAT (Pre-Schedu					Sample Containers Intact? Y N Temperature Upon Receipt:	* La -2.5°C	
CHAIN OF C	Project			Control (Specify):						Date	Date The
		Fax No: 505-397-1471		Date Sampled Date Sampled No. of Containers No. of Containers No. of Containers No. of Containers No. of Containers No. of Containers Reachy Reach	1-c9. 04 1640 3 J J	1-09-04 1540 3 0 0			ent-environmental.com and to enviro@leaco.net	eceived by:	Roller dr Jul
/ironmental Lab of Texas west 1-20 East Phone: 432-563-1800 Texes 79765 Fax: 432-563-1713 Project Manager: Kristin Farris Company Name Rice Operating Company	company address: 122 West Taylor City/state/Zip: Hobbs, New Mexico 88240	Telephone No: 505-393-9174 Semicler Staneture:	ν.	Ido use only Freib code	-01 P6-1	11			Instructions Please email results to both gil@trider	Left 1 la ling 11 10 11:00 - Re	hed by :/ Date Time Re

a da se a construction de la constr

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

Client: <u>Rice</u>	eOperating Co.
Date/Time:	11-11-04@ 1200
Order #:	4K11008

JMM

Initials:

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-2.5 C
Shipping container/cooler in good condition?	Ves >	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not presents
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Tes	No	
Chain of Custody signed when relinquished and received?	res	No	
Chain of custody agrees with sample label(s)	Nes	No	
Container labels legible and intact?	Yes)	No	
Sample Matrix and properties same as on chain of custody?		No	
Samples in proper container/bottle?	(es)	No	
Samples properly preserved?	(es)	No	
Sample bottles intact?	(es)	No	1
Preservations documented on Chain of Custody?	(es)	No	
Containers documented on Chain of Custody?	(les)	No I	
Sufficient sample amount for indicated test?	(es)	No	
All samples received within sufficient hold time?	(es)	No	
VOC samples have zero headspace?	i Kes/	No I	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:	۵٬۰۰۰ کار ۱۹۶۰ وارین در ۲۰۰۰ میرون ویژن ویژن ور ۱۹۶۰ ور در این ویژن ویژن ویژن ویژن ویژن ویژن ویژن وی		
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Analytical Report

Prepared for:

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

Project: EME System M-5 SWD Site Project Number: None Given Location: T20S, R37E, Sec 5, Unit Letter M

Lab Order Number: 4K11005

Report Date: 11/22/04
1	Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
	122 W. Taylor	Project Number:	None Given	Reported:
	Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:10

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
M5-1	4K11005-01	Water	11/10/04 10:30	11/11/04 11:00

Rice Operating Co.	Project: EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	11/22/04 17:10

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1 (4K11005-01) Water		<u> </u>							
Benzene	ND	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"		n	**	
Ethylbenzene	ND	0.00100		Ħ	-		**	**	
Xylene (p/m)	ND	0.00100		*	"	n	H	**	
Xylene (o)	ND	0.00100	w	н	n		"	**	
Surrogate: a,a,a-Trifluorotoluene		96.0 %	80-12)	"	,	"	,,	
Surrogate: 4-Bromofluorobenzene		104 %	80-12)	n	n	"	"	

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Rice Operating Co.Project:EME System M-5 SWD SiteFax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris11/22/04 17:10

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1 (4K11005-01) Water	- "					_			
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	256	2.00	IT		"	"		59	
Hydroxide Alkalinity	ND	0.100	*1	"	19	n	"	te.	
Chloride	7090	5.00	•		EK41809	11/17/04	11/17/04	EPA 325.3M	
Total Dissolved Solids	14000	5.00		*	EK41206	11/11/04	11/11/04	EPA 160.1	
Sulfate	614	6.25	"	12.5	EK41904	11/11/04	11/11/04	EPA 375.4	

Environmental Lab of Texas

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:10

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
M5-1 (4K11005-01) Water									
Calcium	1600	10.0	mg/L	1000	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	428	0.100		100	"	n			
Potassium	39.2	0.500	n	10	"	*	"		
Sedium	1940	10.0	"	1000	n	"		"	

Environmental Lab of Texas

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

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Rice Operating Co.		P	roject: EN	E System M	1-5 SWD Si	ite			Fax: (505) 397-1471			
122 W. Taylor		Project Nu	mber: No	ne Given					Rep	orted:		
Hobbs NM, 88240		Project Mar	nager: Kr	istin Farris					11/22/0	04 17:10		
	0	rganics by	GC - Q	uality Co	ontrol							
		Environm	iental L	ab of Te	xas							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch EK41502 - EPA 5030C (GC)												
Blank (EK41502-BLK1)		,		Prepared &	Analyzed:	11/12/04						
Benzene	ND	0.00100	mg/L									
Toluene	ND	0.00100	"									
Ethylbenzene	ND	0.00100	۳									
Xylene (p/m)	ND	0.00100	u									
Xylene (o)	ND	0.00100	n									
Surrogate: a,a,a-Trifluorotoluene	17.8		ug/l	20.0		89.0	80-120	· · · · .				
Surrogate: 4-Bromofluorobenzene	19.9		"	20.0		99.5	80-120					
LCS (EK41502-BS1)		Prepared & Analyzed: 11/12/04										
Benzene	106		ug/l	100		106	80-120					
Toluene	107		"	100		107	80-120					
Ethylbenzene	113		"	100		113	80-120					
Xylene (p/m)	237		"	200		118	80-120					
Xylene (o)	107			100		107	80-120					
Surrogate: a,a,a-Trifluorotoluene	20.3		"	20.0		102	80-120					
Surrogate: 4-Bromofluorobenzene	23.4		n	20.0		117	80-120					
LCS Dup (EK41502-BSD1)				Prepared &	Analyzed:	11/12/04						
Benzene	105		ug/l	100		105	80-120	0.948	20			
Toluene	106			100		106	80-120	0.939	20			
Ethylbenzene	113		"	100		113	80-120	0.00	20			
Xylene (p/m)	223		"	200		112	80-120	5.22	20			
Xylene (0)	106		"	100		106	80-120	0.939	20			
Surrogate: a,a,a-Trifluorotoluene	19.3		"	20.0		96.5	80-120					
Surrogate: 4-Bromofluorobenzene	22.2		"	20.0		111	80-120					
Calibration Check (EK41502-CCV1)				Prepared &	Analyzed:	11/12/04						
Benzene	102		ug/l	100		102	80-120					
Toluene	101		"	100		101	80-120					
Ethylbenzene	109		"	100		109	80-120			-		
Xyiene (p/m)	213		н	200		106	80-120					
Xylene (0)	112		**	100		112	80-120					
Surrogate: a,a,a-Trifluorotoluene	17.8		"	20.0		89.0	80-120			<u></u>		
Surrogate: 4-Bromofluorobenzene	21.7		"	20.0		108	80-120					

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Fax: (505) 397-1471

Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:10

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 EK41502 - EPA 5030C (GC)

Matrix Spike (EK41502-MS1)	Source: 4	K11005-01	Prepared &	Analyzed:	11/12/04	
Benzene	116	ug/l	100	ND	116	80-120
Toluene	115	•	100	ND	115	80-120
Ethylbenzene	107	"	100	ND	107	80-120
Xylene (p/m)	227	n	200	ND	114	80-120
Xylene (o)	115	**	100	ND	115	80-120
Surrogate: a,a,a-Trifluorotoluene	21.2	"	20.0		106	80-120
Surrogate: 4-Bromofluorobenzene	21.9	"	20.0		110	80-120

Environmental Lab of Texas

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Rice Operating Co.		P	roject: El	ME System M	1-5 SWD Si	te			Fax: (505)	397-147
122 W. Taylor		Project Nu	mber: N	one Given					Repo	rted:
Hobbs NM, 88240		Project Ma	nager: K	ristin Farris					11/22/0	4 17:10
General	Chemistry Para	meters by	EPA /	Standard	Method	ls - Qua	lity Con	trol		
	· · · · · · · · · · · · · · · · · · ·	Environn	iental	Lab of Te	xas		· · · , .			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
latch EK41206 - Filtration Preparati	on									
Blank (EK41206-BLK1)				Prepared &	Analyzed:	11/11/04				
otal Dissolved Solids	ND	5.00	mg/L							
Duplicate (EK41206-DUP1)	Sour	ce: 4K11004-	-01	Prepared &	: Analyzed:					
otal Dissolved Solids	2000	5.00	mg/L		1910	_		4.60	20	
Batch EK41809 - General Preparation Bank (EK41809-BLK1)	n (WetChem)	<u> </u>		Prepared &	Analyzed:	11/17/04	• <u></u>			
Chloride	ND	5.00	mg/L							
latrix Spike (EK41809-MS1)	Sour	ce: 4K11004-	-01	Prepared &	: Analyzed:	11/17/04				
Chloride	1220	5.00	mg/L	500	727	98.6	80-120		· · · _ ·	
fatrix Spike Dup (EK41809-MSD1)	Sourc	ce: 4K11004-	01	Prepared &	Analyzed:	11/17/04				
hloride	1230	5.00	mg/L	500	727	101	80-120	0.816	20	
Reference (EK41809-SRM1)				Prepared &	Analyzed:	11/17/04				
hloride	4960		mg/L	5000		99.2	80-120			
atch EK41814 - General Preparation	(WetChem)									
Bank (EK41814-BLK1)				Prepared &	Analyzed:	11/11/04				
arbonate Alkalinity	ND	0.100	mg/L							
icarbonate Alkalinity	ND	2.00	"							
lydroxide Alkalinity	ND	0.100	n							

Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	11/22/04 17:10

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

ſ <u>····································</u>										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK41814 - General Preparation (WetChem)									
Duplicate (EK41814-DUP1)	Sou	rce: 4K11004	-01	Prepared &	Analyzed:	11/11/04				
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	161	2.00			160			0.623	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EK41814-SRM1)				Prepared &	: Analyzed:	11/11/04				
Carbonate Alkalinity	0.0500	····	mg/L	0.0500		100	80-120			
Batch EK41904 - General Preparation (WetChem)	<u></u>								
Blank (EK41904-BLK1)				Prepared &	Analyzed:	11/11/04				
Sulfate	ND	0.500	mg/L	<u> </u>						
Calibration Check (EK41904-CCV1)				Prepared &	Analyzed:	11/11/04				
Sulfate	49.3		mg/L	50.0		98.6	80-120			
Duplicate (EK41904-DUP1)	Sou	rce: 4K11004-	01	Prepared &	Analyzed:	11/11/04				
Sulfate	241	2.50	mg/L	mg/L 238 1.25 20				20		

Environmental Lab of Texas

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Rice Operating Co.	e Operating Co. Project: EME System M-5 SWD Site									
122 W. Taylor		Reported:								
Hobbs NM, 88240		Project Ma	nager: K	ristin Farris					11/22/0	4 17:10
]	Fotal Metals b	y EPA / St	andaro	d Methods	s - Qualit	ty Cont	rol		_	
_		Environn	iental]	Lab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK42201 - 6010B/No Digestion										
Blank (EK42201-BLK1)				Prepared:	1/15/04 Ar	nalyzed: 11	/19/04			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Blank (EK42201-BLK2)	k (EK42201-BLK2) Prepared: 11/15/04 Analyzed: 11/19/04									
Calcium	ND	0.0100	mg/L	-						
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	11							
Sodium	ND	0.0100	n							
Calibration Check (EK42201-CCV1)				Prepared: 1	1/15/04 An	alyzed: 11	/19/04			
Calcium	2.15		mg/L	2.00		108	85-115		· · · ·	
Magnesium	2.10		*	2.00		105	85-115			
Potassium	2.08			2.00		104	85-115			
Sodium	1.88		"	2.00		94.0	85-115			
Calibration Check (EK42201-CCV2)				Prepared: 1	1/15/04 An	alyzed: 11	/22/04			
Calcium	1.83	,	mg/L	2.00		91.5	85-115			
Magnesium	1.96			2.00		98.0	85-115			
Potassium	1.78			2.00		89 .0	85-115			
Sodium	1.72		"	2.00		86.0	85-115			
Duplicate (EK42201-DUP1)	Sour	rce: 4K11013-	01RE1	Prepared: 1	1/15/04 An	alyzed: 11/	/19/04			
Calcium	34.6	0.100	mg/L		ND				20	
Agnesium	25.6	0.0100	"		ND				20	
otassium	4.08	0.500	"		ND				20	
odium	77.4	1.00	"		ND				20	

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	Rice Operating Co.	Project: EME System M-5 SWD Site	Fax: (505) 397-1471
Í	122 W. Taylor	Project Number: None Given	Reported:
	Hobbs NM, 88240	Project Manager: Kristin Farris	11/22/04 17:10

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 EK42201 - 6010B/No Digestion

Duplicate (EK42201-DUP2)	Sou	rce: 4K11004-	-01	Prepared: 11/15/04 Analyzed: 11/19/04			
Calcium	180	1,00	mg/L	179	0.557	20	
Magnesium	48.9	0.0100		47.2	3.54	20	
Potassium	11.7	0.500		9.88	16.9	20	
Sodium	283	1.00	**	268	5.44	20	

Environmental Lab of Texas

Rice Ope 122 W. 1 Hobbs N	erating Co. Faylor M, 88240	Project: Project Number: Project Manager:	EME System M-5 SWD Site None Given Kristin Farris	Fax: (505) 397-1471 Reported: 11/22/04 17:10			
		Notes and De	finitions				
DET	Analyte DETECTED						
ND	Analyte NOT DETECTED at or above the reporting limit						
NR	Not Reported						
dry	Sample results reported on a dry weight basis						
RPD	Relative Percent Difference						
LCS	Laboratory Control Spike						
MS	Matrix Spike						
Dup	Duplicate						

Report Approved By:

Raland K. Junits Date:

11/22/2004

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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df custody record and analysis request	roject Name: EME System M-5 SWD Site	Project #:	ect Location: T20S, R37E, Sec 5, Unit Letter M	PO #1		Analyze For:		2005, HCO3) 2006, BTEX 826 2007, HGO3) 2003, HCO3) 2003, HCO3) 2003, HCO3) 2003, HCO3)	(Yiber (speedry): PH: 416.1 30. 2005. (Ca, Mg, Ag, ESP (Ca, Mg, Antons (Ca, Mg, Ag, ESP (Ca					Sample Containers Intact? Y N Température Upon Receipt:	Time Lec -2.5°C	Time //oC	
CHAIN	5		Ĕ				atria.		Hog Bould Tarew More Tarew More Specify Color Co					©leaco.net	Date	Date 11/11/04	+
					No: 505-397-1471			5JBU	No. of Contail HNO, HO (ATLY HO	3 / /				com and to enviro		1-0	
					Fax 1			pa pa	əlqms2 əjsQ 	1-10-04 1030	 			 nt-environmental.	sceived by:	eceiped by ELOT: Kalidre	
Texas 2-563-1800 2-563-1713		mpany		0 88240	T# /	1 1.X								both gil@tride	Time R	Time	
ntai Lab of Phone: 43 Fax: 43	. Kristin Farris	Rice Operating Col	. 122 West Taylor	" Hobbs, New Mexic	* 505-393-9174	"Kenty L				5-1 FLEED CUUE		والمحاوية والمحاوية والمحاولة والمحاولة والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية والمحاوية		vease email results to	A Will	Date	
ENVITONMER 12600 West 1-20 East Ddetta, Texas 79765	Project Manager	Company Name	Company Address	City/State/Zip	Telephone No	Sampler Signature ,			9011-JH					Special Instructions: p	Relinquested of 1011	Belinquished by:	

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

Client: Ric	eOperating Co.
Date/Time:	11-11-04@ 1200
Order #:	4K11005
Initialas	JMM

Initials:

Sample Receipt Checklist

	the second second second second second second second second second second second second second second second s	Statement and the second	and a second second sector as a second
Temperature of container/cooler?	(res)	No	-2. <u>5</u> C
Shipping container/cooler in good condition?	Yes >	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Tes	No	
Chain of Custody signed when relinquished and received?	(Tes)	No	
Chain of custody agrees with sample label(s)	Nes	No	
Container labels legible and intact?	(res)	No	
Sample Matrix and properties same as on chain of custody?	1000	No	
Samples in proper container/bottle?	(es)	No	
Samples properly preserved?	(Ces)	No	
Sample bottles intact?	Ces	No	
Preservations documented on Chain of Custody?	Ces	No	
Containers documented on Chain of Custody?	(Ves)	No	
Sufficient sample amount for indicated test?	Tes	No	
All samples received within sufficient hold time?	(es)	No	
VOC samples have zero headspace?	Kes/	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: Regarding:	Date/Time:	Contacted by:	
Corrective Action Taken:			
		,	

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Analytical Report

Prepared for:

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

Project: EME System M-5 SWD Site Project Number: None Given Location: T2OS, R36E, Sec 5, Unit Letter M

Lab Order Number: 5B09007

Report Date: 02/20/05

Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	02/20/05 14:23

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
M5-1	5B09007-01	Water	02/08/05 09:40	02/09/05 07:00

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Rice Operating Co.		P Project N	roject: EMI	E System I e Given	M-5 SWD S	ite		Fax: (505)	397-1471	
Hobbs NM, 88240		Project Ma	inager: Kris	tin Farris				02/20/05 14:23		
		Or	ganics by	GC				- <u></u>		
		Environn	n <mark>ental</mark> La	ıb of Te	exas					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
M5-1 (5B09007-01) Water										
Benzene	ND	0.00100	mg/L	1	EB51807	02/14/05	02/15/05	EPA 8021B		
Toluene	ND	0.00100	"	"	"	•	"	н		
Ethylbenzene	ND	0.00100	"	**	n	"	"	15		
Xylene (p/m)	ND	0.00100		11		*1	"			
Xylene (o)	ND	0.00100	"		*	n		"		
Surrogate: a,a,a-Trifluorotoluene		110 %	80-12	20	n	"	"	"		
Surrogate: 4-Bromofluorobenzene		95.5 %	80-12	20	"	"	"	"		

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Rice Operating Co.	Project: EME System M	M-5 SWD Site Fax: (505) 397-1471	
122 W. Taylor	Project Number: None Given	Reported:	
Hobbs NM, 88240	Project Manager: Kristin Farris	02/20/05 14:23	

General Chemistry Parameters by EPA / Standard Methods

Envir	onmental	Lab	of	Texas
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Analyte M5-1 (5B09007-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	238	2.00	mg/L	1	EB51404	02/15/05	02/15/05	EPA 310.2M	
Chloride	6710	500		1000	EB51713	02/10/05	02/10/05	EPA 300.0	
Total Dissolved Solids	13200	5.00	"	1	EB51004	02/09/05	02/10/05	EPA 160.1	
Sulfate	1450	500	"	1000	EB51713	02/10/05	02/10/05	EPA 300.0	

Environmental Lab of Texas

Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	02/20/05 14:23

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte M5-1 (5B09007-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1800	10.0	mg/L	1000	EB51702	02/14/05	02/16/05	EPA 6010B	
Magnesium	431	0.100	"	100	"	14		**	
Potassium	40.4	0.500		10	"		**		
Sodium	2420	10.0	"	1000	Ħ	n	"	"	

Environmental Lab of Texas

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Rice Operating Co.		Pr	oject: EN	IE System M	1-5 SWD S	ite			Fax: (505)	397-147		
122 W. Taylor		Project Nu	mber: No	ne Given					Repo	rted:		
Hobbs NM, 88240	Project Manager: Kristin Farris									02/20/05 14:23		
	0	rganics by	GC - Q	uality Co	ontrol							
		Environm	ental L	ab of Te	Kas							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note		
Batch EB51807 - EPA 5030C (GC)												
Blank (EB51807-BLK1)				Prepared &	: Analyzed:	02/14/05						
Benzene	ND	0.00100	mg/L									
foluene	ND	0.00100										
Ethylbenzene	ND	0.00100	11									
Kylene (p/m)	ND	0.00100	н									
Kylene (0)	ND	0.00100										
Surrogate: a,a,a-Trifluorotoluene	16.5		ug/l	20.0		82.5	80-120					
Surrogate: 4-Bromofluorobenzene	17.4		"	20.0		87.0	80-120					
LCS (EB51807-BS1)				Prepared &	Analyzed:	02/14/05						
Benzene	105		ug/l	100		105	80-120					
Tohuene	105		"	100		105	80-120					
Sthylbenzene	95.9		"	100		95.9	80-120					
Kylene (p/m)	196		н	200		98.0	80-120					
ylene (o)	95.7		"	100		95.7	80-120					
urrogate: a,a,a-Trifluorotoluene	16.5		"	20.0		82.5	80-120	·				
urrogate: 4-Bromofluorobenzene	16.8		"	20.0		84.0	80-120					
.CS Dup (EB51807-BSD1)				Prepared &	Analyzed:	02/14/05						
lenzene	113	<u> </u>	ug/l	100		113	80-120	7.34	20			
oluene	112		"	100		112	80-120	6.45	20			
thylbenzene	107		17	100		107	80-120	10.9	20			
(ylene (p/m)	224		19	200		112	80-120	13.3	20			
(ylene (o)	111			100		111	80-120	14.8	20			
urrogate: a,a,a-Trifluorotoluene	18.6	······································	N	20.0	<u> </u>	93.0	80-120		····			
urrogate: 4-Bromofluorobenzene	20.2		"	20.0		101	80-120					
Calibration Check (EB51807-CCV1)				Prepared: 02	2/14/05 An	alyzed: 02/	/16/05					
enzene	97.5		ug/l	100		97.5	80-120					
oluene	104		"	100		104	80-120					
thylbenzene	93.1		"	100		93.1	80-120					
ylene (p/m)	194		н	200		97.0	80-120					
ylene (o)	97.9		"	100		97.9	80-120					
urrogate: a,a,a-Trifluorotoluene	16.7		"	20.0		83.5	80-120					
urrogate: 4-Bromofluorobenzene	17.8		"	20.0		89.0	80-120					

Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	02/20/05 14:23

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 EB51807 - EPA 5030C (GC)

Matrix Spike (EB51807-MS1)	Source: 5E	09008-01	Prepared: (02/14/05	Analyzed: 0	2/18/05
Benzene	93.3	ug/l	100	ND	93.3	80-120
Toluene	101	"	100	ND	101	80-120
Ethylbenzene	102		100	ND	102	80-120
Xylene (p/m)	206	"	200	ND	103	80-120
Xylene (0)	97.3	**	100	ND	97.3	80-120
Surrogate: a,a,a-Trifluorotoluene	23.3		20.0		116	80-120
Surrogate: 4-Bromofluorobenzene	20.4	"	20.0		102	80-120

Environmental Lab of Texas

Rice Operating Co.		P	roject: El	ME System M	I-5 SWD Si	te			Fax: (505)	397-147		
122 W. Taylor		Project Nu	umber: No	one Given					Reported:			
Hobbs NM, 88240		Project Ma	nager: Ki	ristin Farris					02/20/0	02/20/05 14:23		
Genera	l Chemistry Para	meters by Environm	EPA /	Standard	Method	ls - Qua	lity Con	trol				
		Penerting					#/PEC					
Analyte	Result	Límit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch EB51004 - General Preparati	on (WetChem)											
Blank (EB51004-BLK1)				Prepared: 0	2/09/05 Ai	nalyzed: 02	/10/05					
Total Dissolved Solids	ND	5.00	mg/L									
Duplicate (EB51004-DUP1)	Sour	ce: 5B09003-	-01	Prepared: 0	2/09/05 Ar	nalyzed: 02	/10/05					
Total Dissolved Solids	16200	5.00	mg/L		14600			10.4	20			
Batch EB51404 - General Preparatio	on (WetChem)											
Blank (EB51404-BLK1)				Prepared &	Analyzed:	02/15/05						
Fotal Alkalinity	ND	2.00	mg/L									
Duplicate (EB51404-DUP1)	Source	ce: 5B09003-	01	Prepared &	Analyzed:	02/15/05						
Fotal Alkalinity	395	2.00	mg/L		396			0.253	20			
Reference (EB51404-SRM1)				Prepared &	Analyzed:	02/15/05						
Carbonate Alkalinity	0.0510		mg/L	0,0500		102	80-120					
Batch EB51713 - General Preparatio	on (WetChem)											
Blank (EB51713-BLK1)				Prepared &	Analyzed:	02/10/05						
Sulfate	ND	0.500	mg/L									
Chloride	ND	0.500	"									
.CS (EB51713-BS1)	<u></u>		<u></u>	Prepared &	Analyzed:	02/10/05						
ulfate	9.66		mg/L	10.0		96.6	80-120					
hloride	9.56			10.0		95.6	80-120					

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

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Rice Operating Co.	Project: EME :	System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: None	Given	Reported:
Hobbs NM, 88240	Project Manager: Kristir	n Farris	02/20/05 14:23

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 EB51713 - General Preparation (WetChem)									
LCS Dup (EB51713-BSD1)				Prepared &	Analyzed:	02/10/05				
Sulfate	9.64		mg/L	10.0		96.4	80-120	0.207	20	
Chloride	9.51		"	10.0		95.1	80-120	0.524	20	
Calibration Check (EB51713-CCV1)				Prepared &	Analyzed:	02/10/05				
Chloride	9.73		mg/L	10.0		97.3	80-120		-u <u>num</u>	
Sulfate	9.88		"	10.0		98.8	80-120			
Duplicate (EB51713-DUP1)	Sour	ce: 5B09004-	01	Prepared &	: Analyzed:	02/10/05				
Chloride	304	10.0	mg/L		304			0.00	20	
Sulfate	357	10.0	н		356			0.281	20	

Environmental Lab of Texas

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Rice Operating Co.	Project:	EME System M-5 SWD Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	02/20/05 14:23

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas Reporting Spike Source %REC Result Limit Units Level Result %REC Limits

Batch EB51702 - 6010B/No Digestion

Analyte

Blank (EB51702-BLK1)				Prepared: 02/14	/05 Analyzed: 0	2/16/05			
Calcium	ND	0,0100	mg/L						
Magnesium	ND	0.00100	"						
Potassium	ND	0.0500	"						
Sodium	ND	0.0100	n						
Calibration Check (EB51702-CCV1)				Prepared: 02/14	/05 Analyzed: 0	2/16/05			
Calcium	2.22		mg/L	2.00	111	85-115			
Magnesium	2.08		"	2.00	104	85-115			
Potassium	1.75		"	2.00	87.5	85-115			
Sodium	1.94		"	2.00	97.0	85-115			
Duplicate (EB51702-DUP1)	Sour	ce: 5B09003-	01	Prepared: 02/14/	05 Analyzed: 02	2/16/05			
Calcium	905	1.00	mg/L	8	48		6.50	20	
Magnesium	254	0.100	"	2	39		6.09	20	
Potassium	88.3	2.50	**	9	0.7		2.68	20	
Sodium	5810	10.0		48	340		18.2	20	

Environmental Lab of Texas

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

RPD

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Notes

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RPD

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Co. Project: EME System M-5 SWD Site Project Number: None Given 40 Project Manager: Kristin Farris			
		Notes and De	finitions		
DET	Analyte DETECTED				
ND	Analyte NOT DETECTED at or above the reporting limit				
NR.	Not Reported				
iry	Sample results reported on a dry weight basis				
RPD	Relative Percent Difference				
LCS	Laboratory Control Spike				
MS	Matrix Spike				
Dup	Duplicate				

Report Approved By:

Raland K Just

2/20/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

Date:

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Environmental Lab of Texas

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

and the second conservation

Client: <u>R</u> :	ce Operating Co.
Date/Time:	02-09-05 8 0700
Order #:	5309007
Initials:	JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	-1.0	CI
Shipping container/cooler in good condition?	(Tes)	No		
Custody Seals intact on shipping container/cooler?	(Yes>	No	Not present	Black Bey
Custody Seals intact on sample bottles?	Yes	No	Not present	\neg
Chain of custody present?	Yes	No		- notin dropbox
Sample Instructions complete on Chain of Custody?	Tes	No		Client droppeditor
Chain of Custody signed when relinquished and received?	(Tes)	No		later
Chain of custody agrees with sample label(s)	(es)	No		
Container labels legible and intact?	Ves	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/bottle?	Yes	No	·······	-1
Samples properly preserved?	(es)	No		
Sample bottles intact?	(res)	No		
Preservations documented on Chain of Custody?	Ves	No		
Containers documented on Chain of Custody?	(Yes	No		
Sufficient sample amount for indicated test?	(Yee)	No		
All samples received within sufficient hold time?	Xes	No		
VOC samples have zero headspace?	Ves	No	Not Applicable	

Other observations:

Contact Person: - Gil Van Davorr Date/Time: 02-09-05 @ 0800 Contacted by: Jeans McMurg Regarding:

missing COC

Corrective Action Taken:

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Client will bring COC by later this morning 5

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and the second second second second second second second second second second second second second second second



Analytical Report

Prepared for:

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

Project: EME System P-6 Line Leak Site Project Number: None Given Location: T2OS, R36E, Sec 6, Unit Letter P

Lab Order Number: 5B09008

Report Date: 02/20/05

Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	02/20/05 14:23

ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P6-1	5B09008-01	Water	02/07/05 16:45	02/09/05 07:00
P6-2 ·	5B09008-02	Water	02/07/05 15:36	02/09/05 07:00

Page 1 of 10

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Rice Operating Co.	Project: EME System P-6 Line Leak Site							Fax: (505)	397-1471	
122 W. Taylor	Project Number: None Given							Reported:		
Hobbs NM, 88240		Project Ma	anager: Kri	stin Farris				02/20/0:	5 14:23	
		Or	ganics b	y GC						
		Environn	nental L	ab of Te	exas					
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
P6-1 (5B09008-01) Water										
Benzene	ND	0.00100	mg/L	1	EB51807	02/14/05	02/15/05	EPA 8021B		
Toluene	ND	0.00100	"		**	H	"	"		
Ethylbenzene	ND	0.00100	"	"	"	n		"		
Xylene (p/m)	ND	0.00100		"	"	"	n			
Xylene (o)	ND	0.00100	14	11	"	"	11	"		
Surrogate: a,a,a-Trifluorotoluene		108 %	80-1	20	"	"	#	"		
Surrogate: 4-Bromofluorobenzene		116%	80-1	20	"	"	"	"		
P6-2 (5B09008-02) Water										
Benzene	ND	0.00100	mg/L	1	EB51807	02/14/05	02/15/05	EPA 8021B		
Toluene	ND	0.00100	"	"	**	**	**	71		
Ethylbenzene	ND	0.00100		IT	n	"	"	•		
Xylene (p/m)	ND	0.00100	"	н	*			"		
Xylene (o)	ND	0.00100	"			"		"		
Surrogate: a,a,a-Trifluorotoluene		100 %	80-1.	20	"	"	"	"		
Surrogate: 4-Bromofluorobenzene		116%	80-1.	20	11	n	"	"		

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Rice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris	02/20/05 14:23

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (5B09008-01) Water									
Total Alkalinity	218	2.00	mg/L	1	EB51404	02/15/05	02/15/05	EPA 310.2M	
Chloride	8210	500	"	1000	EB51713	02/10/05	02/10/05	EPA 300.0	
Total Dissolved Solids	17800	5.00	"	ł	EB51004	02/09/05	02/10/05	EPA 160.1	
Sulfate	1870	500	"	1000	EB51713	02/10/05	02/10/05	EPA 300.0	
P6-2 (5B09008-02) Water									
Total Alkalinity	222	2.00	mg/L	1	EB51404	02/15/05	02/15/05	EPA 310.2M	
Chloride	7030	500	н	1000	EB51713	02/10/05	02/10/05	EPA 300.0	
Total Dissolved Solids	15300	5.00	"	1	EB51004	02/09/05	02/10/05	EPA 160.1	
Sulfate	1860	500	"	1000	EB51713	02/10/05	02/10/05	EPA 300.0	

Environmental Lab of Texas

R	ice Operating Co.	Project:	EME System P-6 Line Leak Site	Fax: (505) 397-1471
1	22 W. Taylor	Project Number:	None Given	Reported:
H	lobbs NM, 88240	Project Manager:	Kristin Farris	02/20/05 14:23

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
P6-1 (5B09008-01) Water								<u> </u>	
Calcium	1790	10.0	mg/L	1000	EB51702	02/14/05	02/16/05	EPA 6010B	
Magnesium	576	0.200	"	200	Ħ	19	n		
Potassium	56.3	1.00	N	20	11			**	
Sodium	3960	10.0	11	1000	"		*	w	
P6-2 (5B09008-02) Water									
Calcium	1580	10.0	mg/L	1000	EB51702	02/14/05	02/16/05	EPA 6010B	
Magnesium	515	0.200	*	200	"	н		"	
Potassium	47.1	1.00	"	20	"		"	"	
Sodium	3550	10.0	"	1000	n	n	n		

Environmental Lab of Texas

Rice Operating Co.		P	roject: EN	IE System P	-6 Line Lea	k Site			Fax: (505) 397-1471		
122 W. Taylor Hobbs NM, 88240		Project Number: None Given Project Manager: Kristin Farris							Reported: 02/20/05 14:2		
	0	rganics by	GC - Q	uality Co	ontrol						
		Environn	iental L	ab of Te	Kas						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch EB51807 - EPA 5030C (GC)											
Blank (EB51807-BLK1)				Prepared &	: Analyzed:	02/14/05					
Benzene	ND	0.00100	mg/L					·			
Toluene	ND	0.00100	"								
Ethylbenzene	ND	0.00100	n								
Xylene (p/m)	ND	0.00100	*								
Xylene (0)	ND	0.00100	17								
Surrogate: a,a,a-Trifluorotoluene	16.5		ug/l	20.0		82.5	80-120			······································	
Surrogate: 4-Bromofluorobenzene	17.4		*	20.0		87.0	80-120				
LCS (EB51807-BS1)	Prepared & Analyzed: 02/14/05										
Benzene	105		ug/l	100		105	80-120				
Toluene	105		n	100		105	80-120				
Ethylbenzene	95.9		"	100		95.9	80-120				
Xylene (p/m)	196		11	200		98.0	80-120				
Xylene (o)	95.7		"	100		95.7	80-120				
Surrogate: a,a,a-Trifluorotoluene	16.5		"	20.0		82.5	80-120				
Surrogate: 4-Bromofluorobenzene	16.8		"	20.0		84.0	80-120				
LCS Dup (EB51807-BSD1)				Prepared &	Analyzed:	02/14/05					
Benzene	113		ug/l	100		113	80-120	7.34	20		
Toluene	112		n	100		112	80-120	6.45	20		
Ethylbenzene	107		*	100		107	80-120	10.9	20		
Kylene (p/m)	224		r.	200		112	80-120	13.3	20		
Xylene (o)	111		H	100		111	80-120	14.8	20		
Surrogate: a,a,a-Trifluorotoluene	18.6		"	20.0		93.0	80-120		······		
Surrogate: 4-Bromofluorobenzene	20.2		"	20.0		101	80-120				
Calibration Check (EB51807-CCV1)				Prepared: 02	2/14/05 An	alyzed: 02	/16/05				
Benzene	97.5		ug/l	100		97.5	80-120				
Toluene	104			100		104	80-120				
Ethylbenzene	93.1		н	100		93.1	80-120				
Xylene (p/m)	194		n	200		97.0	80-120				
Kylene (o)	97.9		"	100		97.9	80-120				
Surrogate: a,a,a-Trifluorotoluene	16.7		"	20.0		83.5	80-120				
Surrogate: 4-Bromofluorobenzene	17.8		"	20.0		89.0	80-120				

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Rice Operating Co.	Project: EME System	m P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	ı	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farri	is	02/20/05 14:23

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 EB51807 - EPA 5030C (GC)

Matrix Spike (EB51807-MS1)	Source: 51	B09008-01	Prepared: (02/14/05	Analyzed: 0	2/18/05
Benzene	93.3	ug/l	100	ND	93.3	80-120
Toluene	101	"	100	ND	101	80-120
Ethylbenzene	102	"	100	ND	102	80-120
Xylene (p/m)	206		200	ND	103	80-120
Xylene (o)	97.3	"	100	ND	97.3	80-120
Surrogate: a,a,a-Trifluorotoluene	23.3	"	20.0		116	80-120
Surrogate: 4-Bromofluorobenzene	20.4	"	20.0		102	80-120

Environmental Lab of Texas

Rice Operating Co.		Р	roject: El	ME System P	-6 Line Lea	k Site			Fax: (505)	397-147	
122 W. Taylor			Reported:								
Hobbs NM, 88240		Project Ma	nager: Ki	ristin Farris					02/20/05 14:23		
Genera	ll Chemistry Para	meters by	EPA /	Standard	l Method	ls - Qua	lity Con	trol			
		Environn	iental I					<u> </u>			
Analista	Provit	Reporting	Linita	Spike	Source	9/DEC	%REC	ממ	RPD	Mataa	
	Kesuit		Clairs		Kesun	70KEL	Lunits	KPD		Notes	
Batch EB51004 - General Preparati	on (WetChem)										
Blank (EB51004-BLK1)			Prepared: (02/09/05 Ai	nalyzed: 02	2/10/05					
Total Dissolved Solids	ND	5.00	mg/L								
Duplicate (EB51004-DUP1)	Source: 5B09003-01 Prepared: 02/09/05 Analyzed: 02/10/05										
Fotal Dissolved Solids	16200	5.00	mg/L	14600 10.4				10.4	20		
Batch EB51404 - General Preparati	on (WetChem)			B							
Blank (EBS1404-BLKI)	ND	2.00		Prepared &	: Analyzed:	02/15/05					
	ND	2.00	mg/L								
Duplicate (EB51404-DUP1)	Sou	ce: 5B09003-	01	Prepared &	Analyzed:	02/15/05					
fotal Alkalinity	395	2.00	mg/L		396			0.253	20		
Reference (EB51404-SRM1)				Prepared &	Analyzed:	02/15/05					
Carbonate Alkalinity	0.0510		mg/L	0.0500		102	80-120				
Batch EB51713 - General Preparati	on (WetChem)										
Blank (EB51713-BLK1)	Prepared & Analyzed: 02/10/05										
Sulfate	ND	0.500	mg/L			,					
Chloride	ND	0.500	11								
.CS (EB51713-BS1)				Prepared &	Analyzed:	02/10/05					
.CS (EB51713-BS1) ulfate	9.66		mg/L	Prepared & 10.0	Analyzed:	96.6	80-120				

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Rice Operating Co.	Project: EME System P-6 Line Leak Site	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	02/20/05 14:23

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	• Limit	Notes
Batch EB51713 - General Preparation (V	VetChem)									
LCS Dup (EB51713-BSD1)				Prepared &	z Analyzed:	02/10/05				
Sulfate	9.64		mg/L	10.0		96.4	80-120	0.207	20	
Chloride	9.51		n	10.0		95.1	80-120	0.524	20	
Calibration Check (EB51713-CCV1)				Prepared &	Analyzed:	02/10/05				
Chloride	9.73		mg/L	10.0		97.3	80-120			
Sulfate	9.88		"	10.0		98.8	80-120			
Duplicate (EB51713-DUP1)	Sou	rce: 5B09004-	01	Prepared &	: Analyzed:	02/10/05				
Chloride	304	10.0	mg/L		304			0.00	20	
Sulfate	357	10.0	*		356			0.281	20	

Environmental Lab of Texas

Rice Operating Co.		P	roject: E	ME System P	-6 Line Lea	k Site			Fax: (505)	397-1471		
122 W. Taylor	Project Number: None Given									Reported:		
Hobbs NM, 88240		Project Manager: Kristin Farris										
	Total Metals b	y EPA / St	andaro	l Methods	s - Quali	ty Cont	rol					
		Environn	ental]	Lab of Te	xas							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Ratah FB51702 - 6010B/No Digastion												
Blank (ED51702 PI K1)				Demand: (0/14/05 A	nolumodi 07	116/05					
	ND	0.0100		Frepareo. C	02/14/05 A	naryzeu. 02						
	ND	0.0100	ing/L									
Magnesium	DN	0.00100	-									
Potassium	ND	0.0500	-									
Sodium	ND	0.0100	"									
Calibration Check (EB51702-CCV1)				Prepared: 0	2/14/05 Ai	nalyzed: 02	/16/05					
Calcium	2.22		mg/L	2.00		111	85-115					
Magnesium	2.08		"	2.00		104	85-115					
Potassium	1.75		*	2.00		87.5	85-115					
Sodium	1.94		**	2.00		97.0	85-115					
Duplicate (EB51702-DUP1)	Sou	rce: 5B09003-	01	Prepared: 0	2/14/05 Ar	nalyzed: 02	/16/05					
Calcium	905	1.00	mg/L		848			6.50	20			
Magnesium	254	0.100	"		239			6.09	20			
Potassium	88.3	2.50	"		90.7			2.68	20			
odium	5810	10.0	н		4840			18.7	20			
Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project: Project Number: Project Manager:	EME System P-6 Line Leak Site None Given Kristin Farris	Fax: (505) 397-1471 Reported: 02/20/05 14:23								
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,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Notes and De	finitions	· · · · · · · · · · · · · · · · · · ·								
DET	Analyte DETECTED											
ND	Analyte NOT DETECTED at or above the reporting limit											
NR	Not Reported											
đry	Sample results reported on a dry weight basis											
RPD	Relative Percent Difference											
LCS	Laboratory Control Spike											
MS	Matrix Spike											
Dun.	Duplicate											

Report Approved By:

Raland K Just

2/20/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

Date:

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

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

Environmental Lab of Texas

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



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

Client: <u>Rice Operating Co.</u>								
Date/Time:	02-09-05 @ 0700							
Order #:	5309008							
Initials:	JMM							

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-1.0° C]
Shipping container/cooler in good condition?	(res)	No		
Custody Seals intact on shipping container/cooler?	(Yes>	No	Not present	-> on Black Bry
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	Yes	0		+ notin dropbox
Sample Instructions complete on Chain of Custody?	Ves	No		Client dropperitty
Chain of Custody signed when relinquished and received?	(Yes)	No		later
Chain of custody agrees with sample label(s)	(es)	No		
Container labels legible and intact?	Ves	No		
Sample Matrix and properties same as on chain of custody?	(Tes)	No		
Samples in proper container/bottle?	res	No		
Samples properly preserved?	(es)	No		
Sample bottles intact?	Tes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	(Yes	No		
Sufficient sample amount for indicated test?	(Yas)	No		
All samples received within sufficient hold time?	Xes	No		
VOC samples have zero headspace?	Yes	No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - Gil Nan Dwort- Date/Time: 02-09-05 @ 0800 Contacted by: Jean-McMurg. Regarding:

missing COC

Corrective Action Taken:

Client will bring COC by later this morning