

ANNUAL MONITORING REPORT





Highlander Environmental Corp.

Midland, Texas

CERTIFIED MAIL RETURN RECEIPT NO. 7002 3150 0005 0508 7737

March 26, 2008

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

- and -

Re: 2007 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Eunice Monument Eumont (EME) SWD System H-13 Leak, Unit H, Section 13, T-20-S, R-36-E, Lea County, New Mexico, NMOCD CASE #1R0429 (AP-44)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2007 Annual Groundwater Summary Report for the Rice Operating Company (ROC), Eunice Monument Eumont (EME) SWD System H-13 Leak.

Background

ROC discovered an accidental discharge at the above referenced site on July 3, 2002. The site location is shown on Figure 1. The soil had settled underneath a 4" asbestos/concrete system line causing it to break. According to the C-141 form (Initial) filed on July 11, 2002, the total volume spilled was 10 barrels with 5 barrels recovered and disposed of into the EME SWD system. The pipeline leak was permanently repaired to minimize the potential for further impairment.

Two delineation trenches were excavated on July 22, 2002, one on the east side of the system line and one on the west side of the line. Chloride concentrations in the east trench decreased to 254 mg/kg at a depth of 8 feet below ground surface, while the west trench exhibited elevated chloride levels to 12 feet below ground surface (bgs). A soil boring was installed on September 25, 2002 to further delineate the depth of impact. Based upon the chloride concentrations and relatively shallow groundwater (~31 feet bgs), this soil boring was completed as a monitoring well. The well was completed to a total depth of 41 feet bgs.

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On December 13, 2002, the NMOCD was notified of groundwater impact. The monitoring well has been sampled on a quarterly basis since October 2002. The only constituent of concern (COC) at this site was chloride.

Stage 1 Abatement Plan Implementation

As part of the Stage 1 Abatement Plan two additional monitor wells were proposed for the site. These two monitor wells (MW-2 and MW-3) were installed on March 23, 2006. MW-2 was placed up-gradient of MW-1, while MW-3 was placed down-gradient. The wells were developed and sampled on March 27, 2006 and July 17, 2006. Both of the new monitor wells displayed similar qualities to the monitor well placed at the leak site (MW-1).

Also as part of the Stage I Abatement Plan, a water well database search was performed to encompass a ½ mile radius around the site. The database search revealed two wells in adjoining section of this site. Both wells were noted as "livestock watering wells" and both exhibited elevated chloride concentrations (1268 mg/L and 2680 mg/L). Based upon the results of the Stage I Abatement Plan implementation, it appears that the background water quality is impaired over the entire region, and not as a result of this spill incident.

RULE 19 RELEASE REQUEST and SOIL WORK PLAN

In a report to the NMOCD dated August 18, 2006, ROC requested release from NMOCD Rule 19 requirements. Additionally, ROC proposed additional assessment and remediation of chloride impacted soils for closure under NMOCD approval. The horizontal extent of chloride impacted soils was to be evaluated with a backhoe. Upon evaluation, the soils were to be excavated to a depth down below the root zone (minimum of 3.0' below ground surface) and either a clay cap or a 40 mil impervious liner was to be placed into the excavation. The excavated soils were to be evaluated and either placed back into the excavation or transported offsite for disposal. The OCD requested additional information in September 2006 which was provided in December 2006.

In a meeting between Mr. Wayne Price of the NMOCD, ROC and Highlander on July 18, 2007, the site was evaluated for release from Rule 19 and proposed excavation, evaluation, and placement of the clay liner beneath the root zone (3.0' bgs). It was noted in the discussion, that the site has revegetated (see attached photograph of site in Appendix B) and formed a natural evapotransporation barrier. As such, Mr. Price agreed with ROC that since the site has revegetated and formed a natural evapotransporation barrier, that ROC can be released from the proposed excavation and placement of the impervious liner. In a meeting with Mr. Ed Hansen of the NMOCD in January 2008, Mr. Hansen concurred with with Mr. Price on releasing ROC from excavating and placement of an impervious liner at the site. A revised release request for no excavation and placement of an impervious liner will be submitted to the NMOCD.

Monitor Well Sampling

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The site monitor wells were sampled on January 24, April 2, July 10, and October 1, 2007. Prior to sampling, the wells were gauged for static water levels. The monitor well caps were opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

The wells were then purged using a portable submersible pump. Approximately three casing volumes of water were purged from each well prior to sampling. The pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are included in the Tables Section of this report.

The wells were also inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level. Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. The samples were delivered under proper chain-of-custody control to Environmental Labs of Texas, Inc., Odessa, Texas and/or Cardinal Labs of Hobbs, New Mexico. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix A.

Monitor Well Sample Results

In 2007, there were no BTEX constituents detected at or above reporting limits for any of the monitor wells. Chloride and total dissolved solid (TDS) concentrations from all three monitor wells exceeded the Water Quality Control Commission (WQCC) standards of 250 mg/L for chloride and 1000 mg/L for TDS in all sampling events. The chloride and TDS concentrations are relatively consistent with each other and with reported concentrations in the area. Cumulative analytical data is summarized in the Table Section of this report.

Conclusions

- 1. In 2007, there were no BTEX constituents detected at or above reporting limits for any of the three monitor wells. To date, no hydrocarbon impact has been detected in any of the monitor wells and as such is not considered a Constituent of Concern at this site.
- 2. Chloride and total dissolved solid (TDS) concentrations from all three monitor wells exceeded the Water Quality Control Commission (WQCC) standards of 250 mg/L for chloride and 1000 mg/L for TDS in all sampling events. The chloride and TDS concentrations are relatively consistent with each other and with reported concentrations in the area.

- 3. A revised release request for no excavation and placement of an impervious liner will be submitted to the NMOCD.
- 4. Based upon the results of the Stage I Abatement Plan implementation, it appears that the background water quality is impaired over the entire region, and not as a result of this spill incident. Quarterly monitoring at this site will continue, until notified by the NMOCD and, if warranted, an annual report will be prepared and submitted to the NMOCD in the first quarter of 2009.



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Respectfully Submitted, HIGHLANDER ENVIRONMENTAL CORP.

Jeffrey Kindley, P.G. Senior Environmental Geologist

cc: ROC, Edward Hansen – NMOCD Enclosures: Figures, Tables, Laboratory Analysis

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TABLES

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	Comments																	Clear	Clear/no odor	Clear/no odor	Clear	Clear/no odor
	Sulfate	497	1020	920	622	370	44	90.8	418	358	376	641	358	286	351	307	412	308	292	287	302	000
	Total Xylenes	<0.001	<0.001	<0.001	<0.001	0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	000 01
	Ethyl Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	100 0
	Toluene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1000
Mexico	Benzene	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
H-13 H2, New	TDS	5180	5340	5600	4700	4180	3580	751	3510	3900	3890	5520	4880	4760	3620	4160	3240	3260	2940	3070	3800	-
ea Cour	Ū	1770	2600	2360	2000	1600	1500	177	1680	1590	1850	2610	1900	1450	1900	1600	1800	1430	1610	1640	1550	
	Sample Date	10/29/02	03/06/03	05/29/03	08/22/03	11/19/03	02/18/04	05/27/04	09/07/04	11/24/04	03/30/05	06/21/05	09/16/05	10/19/05	01/18/06	04/18/06	07/17/06	10/09/06	01/24/07	04/02/07	07/10/07	1
	Volume Purged	5.25	5.10	5.10	5.04	5.00	5.00	5.00	5.14	5.40	25.0	10.0	XXX	6.0	8.0	8.0	10.0	10.0	8.0	8.0	8.0	but and
	Volume	1.72	1.71	1.21	1.68	1.60	1.67	1.65	1.71	1.80	1.91	1.95	XXX	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	
	Total Depth	43.94	43.90	43.91	43.90	43.91	43.90	43.90	44.10	44.10	44.10	44.10	XXX	44.10	44.10	44.10	44.10	44.10	44.32	44.32	44.32	
	Depth to Water	33.19	33.18	33.20	33.40	33.35	33.41	33.56	33.40	32.85	32.19	31.93	XXX	31.70	31.59	31.66	31.75	31.77	31.72	31.68	31.69	
	MM	-	-	1	-	-	-	1	1	-	1	-	-	-	-	1	1	-	-	1	1	-



		Comments					Clear	Pumping	Pumping	Pumping	Clear
		Sulfate		264	237	562	284	300	231	291	348
		Total Xylenes		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003
		Ethyl Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Operating	v Mexico	Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
eering H-13	ty, Nev	TDS		3560	4120	2710	3720	2890	3690	3770	3189
e Engin	ea Coun	U		1670	1420	1690	1430	1660	1470	1440	1480
Rio	Le	Sample	Date	03/27/06	04/18/06	07/17/06	10/09/06	01/24/07	04/02/07	07/10/07	10/01/07
		Volume	Purged	8.00	8.00	10.00	10.00	6.00	8.00	8.00	7.00
		Well	Volume	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.90
		Total	Depth	43.10	43.10	43.10	43.10	43.03	43.03	43.03	43.03
		Depth to	Water	30.69	30.66	30.80	30.85	30.78	30.75	30.79	30.85
		MM		2	2	2	2	2	2	2	2



	Comments					Clear	Pumping	Pumping	Pumping	Clear
	Sulfate		472	426	557	393	398	242	392	332
	Total Xylenes		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	Ethyl Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Operating	Benzene		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
eering H-13	TDS		3480	3560	3035	2990	2820	3290	3420	3257
ce Engin	CI		1490	1390	1510	1380	1570	1410	1450	1440
N	Sample	Date	03/27/06	04/18/06	07/17/06	10/09/06	01/24/07	04/02/07	07/10/07	10/01/07
	Volume	Purged	8.00	10.00	10.00	10.00	8.00	8.00	8.00	8.00
	Well	Volume	2.30	2.30	2.20	2.20	2.20	2.30	2.20	2.20
	Total	Depth	46.00	46.00	46.00	46.00	46.00	46.00	46.00	46.00
	Depth to	Water	31.89	31.85	32.08	32.04	31.96	31.93	31.95	32.02
	MM		3	3	3	3	3	3	3	3



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PHOTOGRAPHIC DOCUMENTATION Rice Operating Company EME SWD System H-13, Lea County, New Mexico



1. View of the revegetated site.

APPENDIX A

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R. E. Martin



A Xenco Laboratories Company

12600 West 1-20 East - Odessa, Texas 79765

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Analytical Report

Prepared for: Kristin Farris-Pope Rice Operating Co. 122 W. Taylor Hobbs, NM 88240

Project: EME H-13 Leak Project Number: None Given Location: T20S-R36E-Sec13H~Lea County New Mexico

Lab Order Number: 7D05009

Report Date: 04/13/07

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

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Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7D05009-01	Water	04/02/07 09:15	04-05-2007 13:20
Monitor Well #2	7D05009-02	Water	04/02/07 11:00	04-05-2007 13:20
Monitor Well #3	7D05009-03	Water	04/02/07 10:10	04-05-2007 13:20

Rice Operating Co.		ak			Fax: (505) 3	197-1471			
122 W. Taylor		Project Nu	mber: No	ne Given					
Hobbs NM, 88240		Project Ma	nager: Kr	istin Farris-I	Pope				
	<u> </u>	Or	ganics b	y GC					
		Environn	- nental L	ab of Te	exas .				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Monitor Well #1 (7D05009-01) Water	<u></u>								
Benzene	ND	0.00100	mg/L	l	ED70905	04/09/07	04/09/07	EPA 8021B	
Toluene	ND	0.00100		"	*	п		11	
Ethylbenzene	ND	0.00100	н	"	"	"	n	11	
Xylene (p/m)	ND	0.00100	· • •	. "	n	**	**	19	
Xylene (o)	ND	0.00100		н	н	"	15	н	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %	80-	120	"	"	"	"	
Monitor Well #2 (7D05009-02) Water				_	_				
Benzene	ND	0.00100	mg/L	1	ED70905	04/09/07	04/09/07	EPA 8021B	
Toluene	ND	0.00100	n	"	"	"	и	п	
Ethylbenzene	ND	0.00100	11	•	"	"	п		
Xylene (p/m)	ND	0.00100	11	"	н	n	н		
Xylene (o)	ND	0.00100	"		н	n	n	0	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-	120	"	"		"	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-	120	"	"	n	"	
Monitor Well #3 (7D05009-03) Water									
Benzene	ND	0.00100	mg/L	I	ED70905	04/09/07	04/09/07	EPA 8021B	
Toluene	ND	0.00100	п	**	17	"	"	"	
Ethylbenzene	ND	0.00100	"		"		υ	"	
Xylene (p/m)	ND	0.00100		п	н	n	"	н	

0.00100

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80-120

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ND

Surrogate: a,a,a-Trifluorotoluene Surrogate: 4-Bromofluorobenzene

Xylene (o)

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A Xenco Laboratories Company

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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Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7D05009-01) Water									
Total Alkalinity	224	2.00	mg/L	1	ED70509	04/05/07	04/06/07	EPA 310.1M	
Chloride	1640	25.0	"	50	ED71003	04/10/07	04/10/07	EPA 300.0	
Total Dissolved Solids	3070	10.0	"	I	ED71008	04/05/07	04/06/07	EPA 160.1	
Sulfate	287	25.0	"	50	ED71003	04/10/07	04/10/07	EPA 300.0	
Monitor Well #2 (7D05009-02) Water									
Total Alkalinity	260	2.00	mg/L	1	ED70509	04/05/07	04/06/07	EPA 310.1M	
Chloride	1470	25.0	н	50	ED71003	04/10/07	04/10/07	EPA 300.0	
Total Dissolved Solids	3690	10.0	н	I	ED71008	04/05/07	04/06/07	EPA 160.1	
Sulfate	231	25.0	ii	50	ED71003	04/10/07	04/10/07	EPA 300.0	
Monitor Well #3 (7D05009-03) Water									
Total Alkalinity	256	2.00	mg/L	1	ED70509	04/05/07	04/06/07	EPA 310.1M	
Chloride	1410	25.0	"	50	ED71003	04/10/07	04/10/07	EPA 300.0	
Total Dissolved Solids	3290	10.0		1	ED71008	04/05/07	04/06/07	EPA 160.1	
Sulfate	242	25.0	"	50	ED71003	04/10/07	04/10/07	EPA 300.0	

Environmental Lab of Texas

A Xenco Laboratories Company

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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Hobbs NM, 88240

Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7D05009-01) Water									
Calcium	329	8.10	mg/L	100	ED71313	04/13/07	04/13/07	EPA 6010B	
Magnesium	134	1.80	**	50	"	11	н	**	
Potassium	14.0	0.600		10	"	"	и	11	
Sodium	629	4.30	н	100		"	"	н	
Monitor Well #2 (7D05009-02) Water									
Calcium	312	8.10	mg/L	100	ED71313	04/13/07	04/13/07	EPA 6010B	
Magnesium	130	1.80	"	50	"	11	n	14	
Potassium	12.8	0.600	"	10	"	"	н	31	
Sodium	606	4.30	"	100	n	n	н	"	
Monitor Well #3 (7D05009-03) Water									
Calcium	269	4.05	mg/L	50	ED71313	04/13/07	04/13/07	EPA 6010B	
Magnesium	113	1.80	11	"		н	"	п	
Potassium	12.7	0.600	"	10	н	**	"	н	
Sodium	682	4.30	"	100	н	н		85	

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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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Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control

		Environm	iental I	Lab of Tex	as					
	Dente	Reporting	I facility	Spike	Source		%REC	D D D	RPD	
Analyte	Kesun		Onns	Level	Kesun	70KEC		KPD		INOLE
Batch ED70905 - EPA 5030C (GC)										
Blank (ED70905-BLK1)			_	Prepared &	Analyzed	: 04/09/07				
Benzene	ND	0.00100	mg/L							
Foluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (0)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	53.2		ug/l	50.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	44.2		"	50.0		88.4	80-120			
LCS (ED70905-BS1)				Prepared &	: Analyzed	: 04/09/07				
Benzene	0.0494	0.00100	mg/L	0.0500		98.8	80-120			
Toluene	0.0471	0.00100	"	0.0500		94.2	80-120			
Ethylbenzene	0.0476	0.00100		0.0500		95.2	80-120			
Xylene (p/m)	0.0904	0.00100	"	0.100		90.4	80-120			
Xylene (o)	0.0502	0.00100	и	0.0500		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	52.9		ug 1	50.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	45.5		"	50.0		91.0	80-120			
Calibration Check (ED70905-CCV1)				Prepared: ()4/09/07 A	nalyzed: 04	/10/07			
Benzene	51.6		ug/l	50.0		103	80-120			
Toluene	49.4			50.0		98.8	80-120			
Ethylbenzene	48.1			50.0		96.2	80-120			
Xylene (p/m)	86.7		"	100		86.7	80-120			
Xylene (0)	50.0		u	50.0		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	54.6		"	50.0	······	109	80-120			
Surrogate: 4-Bromofluorobenzene	44.8		"	50.0		89.6	80-120			
Matrix Spike (ED70905-MS1)	Sou	rce: 7D05009-	-01	Prepared &	Analyzed	: 04/09/07				
Benzene	0.0510	0.00100	mg/L	0.0500	ND	102	80-120			
Foluene	0.0492	0.00100	n	0.0500	ND	98.4	80-120			
Ethylbenzene	0.0480	0.00100		0.0500	ND	96.0	80-120			
Xylene (p/m)	0.0886	0.00100	"	0.100	ND	88.6	80-120			
Xylene (o)	0.0503	0.00100	n	0.0500	ND	101	80-120			
Surrogate: a,a,a-Trifluorotoluene	53.9		ug·l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	43.3		"	50.0		86.6	80-120			

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Page 5 of 10

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

Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

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 ED70905 - EPA 5030C (GC)

Matrix Spike Dup (ED70905-MSD1)	Sour	Prepared &	Analyzed:	04/09/07						
Benzene	0.0496	0.00100	mg/L	0.0500	ND	99.2	80-120	2.78	20	
Toluene	0.0474	0.00100	н	0.0500	ND	94.8	80-120	3.73	20	
Ethylbenzene	0.0470	0.00100	"	0.0500	ND	94.0	80-120	2.11	20	
Xylene (p/m)	0.0859	0.00100		0.100	ND	85.9	80-120	3.09	20	
Xylene (o)	0.0485	0.00100	n	0.0500	ND	97.0	80-120	4.04	20	
Surrogate: a,a,a-Trifluorotoluene	54.1		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		"	50.0		85.8	80-120			

Environmental Lab of Texas

A Xenco Laboratories Company

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Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch ED70509 - General Preparation (WetCh	em)			•						
Blank (ED70509-BLK1)				Prepared: ()4/05/07 At	nalyzed: 04	/06/07			
Total Alkalinity	ND	2.00	mg/L							
LCS (ED70509-BS1)				Prepared: ()4/05/07 Ar	nalyzed: 04	/06/07			
Bicarbonate Alkalinity	178	2.00	mg/L	200		89.0	85-115			
Reference (ED70509-SRM1)				Prepared: ()4/05/07 Ar	nalyzed: 04	/06/07			
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch ED71003 - General Preparation (WetCh	em)							····		
Blank (ED71003-BLK1)				Prepared &	z Analyzed:	04/10/07				
Chloride	ND	0.500	mg/L		_					
Sulfate	ND	0.500	0		*					
LCS (ED71003-BS1)				Prepared 8	k Analyzed:	04/10/07				
Chloride	12.0	0.500	mg/L	10.0		120	80-120			
Sulfate	12.0	0.500	**	10.0		120	80-120			
Calibration Check (ED71003-CCV1)				Prepared &	k Analyzed:	04/10/07				
Chloride	9.00		mg/L	10.0		90.0	80-120			
Sulfate	9.76			10.0		97.6	80-120			
Duplicate (ED71003-DUP1)	So	urce: 7D05009-	01	Prepared &	k Analyzed:	04/10/07				
Sulfate	254	25.0	mg/L		287			12.2	20	
Chloride	1590	25.0	"		1640			3.10	20	
Duplicate (ED71003-DUP2)	So	arce: 7D05014-	05	Prepared &	k Analyzed:	04/10/07				
Sulfate	1860	50.0	mg/L		1860			0.00	20	
Chloride	1390	50.0	"		1410			1.43	20	

Environmental Lab of Texas

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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 ED71003 - General Preparatio	n (WetChem)							<u> </u>	·	
Matrix Spike (ED71003-MS1)	Sourc	e: 7D05009-	01	Prepared &	Analyzed:	04/10/07				
Sulfate	721	25.0	mg/L	500	287	86.8	80-120			
Chloride	2080	25.0	н	500	1640	88.0	80-120			
Matrix Spike (ED71003-MS2)	Sourc	Source: 7D05014-05 Prepared & Analyzed: 04/10/07								
Sulfate	2840	50.0	mg/L	1000	1860	98.0	80-120			
Chloride	2480	50.0	"	1000	1410	107	80-120			
Batch ED71008 - General Preparatio	n (WetChem)							<u>. </u>		
Blank (ED71008-BLK1)				Prepared: (04/05/07 A	nalyzed: 04	/06/07			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (ED71008-DUP1)	Sourc	e: 7D05009	-01	Prepared: (04/05/07 A	nalyzed: 04	4/06/07			
Total Dissolved Solids	3700	10.0	me/L		3070			18.6	20	

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Project: EME H-13 Leak Project Number: None Given , Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch ED71313 - 6010B/No Digestion											
Blank (ED71313-BLK1)		Prepared & Analyzed: 04/13/07									
Calcium	ND	0.0810	mg/L								
Magnesium	ND	0.0360	**								
Potassium	ND	0,0600	"								
Sodium	ND	0.0430	"								
Calibration Check (ED71313-CCV1)				Prepared 8	k Analyzed:	04/13/07					
Calcium	2.00		mg/L	2.00		100	85-115				
Magnesium	2.01		"	2.00		100	85-115				
Potassium	1.93		n	2.00		96.5	85-115				
Sodium	2.07		н	2.00		104	85-115				
Duplicate (ED71313-DUP1)	Sou	irce: 7D05009	-01	Prepared &	& Analyzed:	: 04/13/07					
Calcium	329	8.10	mg/L		329			0.00	20		
Magnesium	134	1.80	и		134			0.00	20		
Potassium	14.2	0.600	"		14.0			1.42	20		
Sodium	628	4.30	"		629			0.159	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,

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with written approval of Environmental Lab of Texas.

Rice Op 122 W. Hobbs N	erating Co. Taylor IM, 88240	Project: Project Number: Project Manager:	EME H-13 Leak None Given Kristin Farris-Pope	Fax: (505) 397-147
		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:

Celey D. Keene, Org. Tech Director

Raland K. Tuttle, Laboratory Consultant

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Date: 4/13/2007

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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.

Brent Barron, Laboratory Director/Corp. Technical Director

Environmental Lab of Texas

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Page 10 of 10

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

lient:	Fire
ate/ Time:	4-5-07 1:20
ab ID # :	1005069
nitials:	GL

Sample Receipt Checklist

				C	lient Initials
£1	Temperature of container/ cooler?	Tes	No	-20 °C	
1 ≠2	Shipping container in good condition?	Yes	No		
:3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
t4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
¶ ⁴ 5	Chain of Custody present?	Yes	No		
<i>t</i> 6	Sample instructions complete of Chain of Custody?	(Yes)	No		
ŧ7	Chain of Custody signed when relinquished/ received?	Yes	No		
.	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
19	Container label(s) legible and intact?	Yes	No	Not Applicable	
¢10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	Yes	No		
t12	Samples in proper container/ bottle?	Yes	No	See Below	
t13	Samples properly preserved?	Yes	No	See Below	
¥14	Sample bottles intact?	Yes	No		
#±15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
¥17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact.		Contacted by:	Date/ Time:	
Regarding				
Corrective Action Taker	ו <u>:</u>			
Check all that Apply:		See attached e-mail/ fax Client understands and would like	to proceed with analysis	

Cooling process had begun shortly after sampling event

Analytical Report 285886

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for

Rice Operating Co.

Project Manager: Kristin Pope

EME H-13 Leak

30-JUL-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



30-JUL-07



Project Manager: Kristin Pope Rice Operating Co. 122 West Taylor Hobbs, NM 88240

Reference: XENCO Report No: 285886 EME H-13 Leak Project Address: T20S R36E S13H Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 285886. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 285886 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America





Sample Cross Reference 285886

Rice Operating Co., Hobbs, NM EME H-13 Leak

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Monitor Well # 1	W	Jul-10-07 09:45		285886-001
Monitor Well # 2	W	Jul-10-07 10:35		285886-002
Monitor Well # 3	W	Jul-10-07 08:50		285886-003

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Certificate of Analysis Summary 285886

Rice Operating Čo., Hobbs, NM



Project Name: EME H-13 Leak

Project	Id:	
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Date Received in Lab: Jul-12-07 03:25 pm Report Date: 30-JUL-07

Brent Barron, II

Contact: Kristin Pope **Report Date:** Project Location: T20S R36E S13H Lea County New Mexic **Project Manager:** Lab Id: 285886-001 285886-002 285886-003 Monitor Well # 1 Monitor Well # 2 Monitor Well # 3 Analysis Requested Field Id: Depth: Matrix: WATER WATER WATER Sampled: Jul-10-07 09:45 Jul-10-07 10:35 Jul-10-07 08:50

Extractea:							
Analyzed:	Jul-19-07 I	6:00	Jul-19-07 1	6:00	Jul-19-07 1	6:00	
Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	
	310	4.00	290	4.00	320	4.00	
Extracted:	Jul-18-07 0	08:00	Jul-18-07 (08:00	Jul-18-07 (08:00	
Analyzed:	Jul-19-07 (00:19	Jul-19-07 (00:40	Jul-19-07 (01:01	
Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	
	ND	0.0010	ND	0.0010	. ND	0.0010	
	ND	0.0010	ND	0.0010	ND	0.0010	
	ND	0.0010	ND	0.0010	ND	0,0010	
	ND	0.0020	ND	0.0020	ND	0.0020	
	ND	0.0010	ND	0.0010	ND	0.0010	
	ND		ND		ND		
	ND		ND		ND		
Extracted:							
Analyzed:	Jul-18-07 1	19:08	Jul-18-07	19:28	Jul-18-07	9:48	
Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	
	1550	25.0	1490	25.0	1450	25.0	
	302	25.0	291	25.0	392	25.0	
Extracted:							
Analyzed:	Jul-13-07 (09:21	Jul-13-07	09:21	Jul-13-07 (09:21	
Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	
	346	0.100	327	0.100	310	0.100	
	139	0.010	141	0.010	138	0.010	
	11.4	0.500	9.18	0.500	9.25	0.500	
	557	0.500	480	0.500	581	0.500	
Extracted:							
Analyzed:	Jul-13-07	16:35	Jul-13-07	16:35	Jul-13-07	16:35	
Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	
	3800	5.00	3770	5.00	3420	5.00	
	Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL:	Extracted: Jul-19-07 I Units/RL: mg/L 310 Stracted: Jul-18-07 (Jul-18-07 (Analyzed: Jul-19-07 (Units/RL: mg/L ND ND ND ND ND ND ND ND ND ND ND ND Units/RL: mg/L MD ND ND ND VD ND ND ND Units/RL: mg/L 1550 302 Extracted: Malyzed: Jul-13-07 (Jul-13-07 (Units/RL: mg/L 346 139 11.4 557 Extracted: Jul-13-07 (Analyzed: Jul-13-07 (Units/RL: mg/L 346 139 11.4 557 Extracted: Jul-13-07 (Units/RL: mg/L 3800 3800	Extracted: Jul-19-07 16:00 Units/RL: mg/L RL 310 4.00 Extracted: Jul-18-07 08:00 Analyzed: Jul-19-07 00:19 Units/RL: mg/L RL Malyzed: Jul-19-07 00:19 Units/RL: mg/L RL ND 0.0010 ND Staracted: Haralyzed: Staracted: Analyzed: Jul-18-07 19:08 Units/RL: Units/RL: mg/L RL 1550 25.0 302 25.0 302 25.0 302 25.0 Inits/RL: mg/L RL RL Jul-13-07 09:21 Units/RL: mg/L RL J139 0.010 139 0.010 I1.4 0.500 557 0.500	Extracted: Jul-19-07 16:00 Jul-19-07 1 Units/RL: mg/L RL mg/L 310 4.00 290 Extracted: Jul-18-07 08:00 Jul-18-07 0 Analyzed: Jul-19-07 00:19 Jul-19-07 0 Units/RL: mg/L RL mg/L MD 0.0010 ND ND ND ND ND ND ND ND ND ND ND ND ND ND Isis/RL: mg/L RL mg/L Isis/RL: mg/L Isis/RL mg/L Isis/RL: mg/L RL mg/L Isis/RL: mg/L	Extracted: Jul-19-07 16:00 Jul-19-07 16:00 Units/RL: mg/L RL mg/L RL 310 4.00 290 4.00 Extracted: Jul-18-07 08:00 Jul-18-07 08:00 Jul-19-07 00:40 Maalyzed: Jul-19-07 00:19 Jul-19-07 00:40 RL Maalyzed: Jul-19-07 00:19 Jul-19-07 00:40 RL Units/RL: mg/L RL mg/L RL ND 0.0010 ND 0.0010 ND ND ND 0.0010 ND ND ND 19:28 Units/RL: mg/L RL mg/L 1550 25.0 1490 25.0 25.0 25.0 25.0 25.0 Extracted: Maalyzed: Jul-13-07 09:21	Extracted: Jul-19-07 16:00 Jul-19-07 16:00 Jul-19-07 16:00 Jul-19-07 16:00 Units/RL: mg/L RL mg/L RL mg/L RL mg/L 310 4.00 290 4.00 320 Extracted: Jul-18-07 08:00 Jul-18-07 08:00 Jul-18-07 08:00 Jul-18-07 08:00 Analyzed: Jul-19-07 00:19 Jul-19-07 00:40 Jul-19-07 00 Units/RL: mg/L RL mg/L RL MD 0.0010 ND 0.0010 ND ND ND ND ND ND ND ND ND ND ND ND ND Units/RL: mg/L RL mg/L mg/L mg/L Malyzed: Jul-18-07 19:08 Jul-18-07 19:28 Jul-18-07	Extracted: Jul-19-07 16:00 Jul-19-07 16:00 Jul-19-07 16:00 Units/RL: mg/L RL mg/L RL mg/L RL 310 4.00 290 4.00 320 4.00 Extracted: Jul-18-07 08:00 Jul-18-07 08:00 Jul-18-07 08:00 Jul-18-07 08:00 Analyzed: Jul-19-07 00:19 Jul-19-07 00:40 Jul-19-07 01:01 mg/L Units/RL: mg/L RL mg/L RL mg/L RL ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND 0.0010 ND ND ND ND ND ND 0.0010 Malyzed: Jul-18-07 19:08 Jul-18-07 19:28 Jul-18-07 19:48 mg/L RL Analyzed: Jul-13-07 09:21 Jul-13-07 09:21 Jul-13-07 09

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Brent Barron

Odessa Laboratory Director

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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

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5757 NW 158th St, Miami Lakcs, FL 33014	(305) 823-8500	(305) 823-8555



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Form 2 - Surrogate Recoveries



Project Name: EME H-13 Leak

ork Order #: 285886 Lab Batch #: 700581 Units: mg/L	Sample: 285886-001 / SMP	Ba SU	Project II tch: Matri RROGATE RE): x: Water COVERY S	STUDY				
BTEX by I	EPA 8021B lytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
4-Bromofluorobenzene		0.0430	0.0500	86	80-120				
Lab Batch #: 700581 Units: mg/L	Sample: 285886-002 / SMF	Ba SU	tch: ¹ Matri RROGATE RE	x: Water	STUDY				
BTEX by I Ana	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag			
4-Bromofluorobenzene		0.0469	0.0500	94	80-120				
Lab Batch #: 700581 Units: mg/L	Sample: 285886-003 / SMF	MP Batch: 1 Matrix: Water SURROGATE RECOVERY STUDY							
BTEX by I	EPA 8021B lytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag			
4-Bromofluorobenzenc		0.0432	0.0500	86	80-120				
Lab Batch #: 700581 Units: mg/L	Sample: 286015-001 S / M	MS Batch: 1 Matrix: Water SURROGATE RECOVERY STUDY							
BTEX by I	EPA 8021B lytes	Amount Found [A]	True Amount {B}	Recovery %R [D]	Control Limits %R	Flag			
4-Bromofluorobenzene		0.0421	0.0500	84	80-120				
Lab Batch #: 700581 Units: mg/L	Sample: 286015-001 SD / 1	MSD Ba	ntch: ¹ Matri URROGATE RI	ix: Water ECOVERY	STUDY				
BTEX by I	EPA 8021B lytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag			
4-Bromofluorobenzene		0.0487	0.0500	97	80-120				

** Surrogates outside limits; data and surrogates confirmed by reanalysis *** Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



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Form 2 - Surrogate Recoveries



Project Name: EME H-13 Leak

Vork Order #: 285886	BKS Bat	Project II	D: iv: Water		
Units: mg/L	SU	RROGATE RI	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0484	0.0500	97	80-120	
Lab Batch #: 700581 Sample: 497352-1-BLK /	BLK Ba	tch: l Matr	ix: Water	·	
Units: mg/L	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0470	0.0500	94	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis *** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / BAll results are based on MDL and validated for QC purposes.



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Project Name: EME H-13 Leak

Work Order #: 285886			Pro	ject ID:			
Lab Batch #: 700766	Sa	mple: 700766-	1-BKS	Matri	x: Water		
Date Analyzed: 07/19/2007	Date Prej	pared: 07/19/20	07	Analys	t: WRU		
Reporting Units: mg/L	Ba	itch #: 1	BLANK /B	LANK SPII	KE REC	OVERY S	TUDY
Alkalinity by EPA 310.1		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes				[C]	[D]		
Alkalinity, Total (as CaCO3)		ND	200	180	90	80-120	
Lab Batch #: 700581	Sa	ample: 497352-	1-BKS	Matri	x: Water		
Date Analyzed: 07/18/2007	Date Pre	pared: 07/18/20	07	Analys	t: CELKE	ΞE	
Reporting Units: mg/L	Ba	atch #: 1	BLANK /B	BLANK SPI	KE REC	OVERY S	TUDY
BTEX by EPA 8021B		Blank Result [A]	Spike Added [B]	Blank Spike Result ICl	Blank Spike %R (Dl	Control Limits %R	Flags
Panzana		ND	0.0500	0.0510	102	70-125	
Toluene	·····	ND	0.0500	0.0510	102	70-125	
Ethylbenzene	······································	ND	0.0500	0.0551	110	71-129	
m.p-Xylenc		ND	0.1000	0.0989	99	70-131	
o-Xylene	. 	ND	0.0500	0.0523	105	71-133	
Lab Batch #: 700599	S	ample: 700599-	1-BKS	Matri	x: Water	<u> </u>	
Date Analyzed: 07/18/2007	Date Pre	pared: 07/18/20)07	Analys	st: LATCO	OR	
Reporting Units: mg/L	B;	atch #: 1	BLANK /	SLANK SPI	KE REC		STUDY
Inorganic Anions by EPA 300 Analytes		Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride		ND	10.0	10.0	100	90-110	
Sulfate		ND	10.0	10.1	101	90-110	
		I	I	1	1	I	1

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes.



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Form 3 - MS Recoveries



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Project Name: EME H-13 Leak

Work Order #:	285886
Lab Batch #:	700599

Lab Batch #: 700599			Pr	oject ID:		
Date Analyzed: 07/18/2007	Date Prepared:	07/18/2007	7	Analyst:	LATCOR	
QC- Sample ID: 285873-001 S	Batch #:	1		Matrix:	Water	
Reporting Units: mg/L	МАТ	'RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R {D]	Control Limits %R	Flag
Analytes		[B]				
Chloride	549	250	1060	204	90-110	X
Sulfate	1830	250	2250	168	90-110	x

Form 3 - MS / MSD Recoveries

Project Name: EME H-13 Leak



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Work Order #: 285886

Date Analyzed: 07/18/2007 Lab Batch ID: 700581 Renorting Units: mg/L

QC- Sample ID: 286015-001 S Date Prepared: 07/18/2007

Matrix: Water CELKEE Analyst: Batch #:

1

Project ID:

		M	ATKIX SPIKI	TAN / S	KIX SPIF	LE DUPLICAT	IE RECC	VERY S	XGUIS		
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	QN	0.0500	0.0438	88	0.0500	0.0473	95	∞	70-125	25	
Toluene	QN	0.0500	0.0439	88	0.0500	0.0475	95	8	70-125	25	
Ethylbenzene	DN	0.0500	0.0468	94	0.0500	0.0509	102	8	71-129	25	
m,p-Xylene	DN	0.1000	0.0837	84	0.1000	0.0912	91	8	70-131	25	
o-Xylene	ND	0.0500	0.0442	. 88	0.0500	0.0478	96	9	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(D-G)/(D+G)

ND = Not Detected. J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested. I = Interference. NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Page 10 of 13



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Sample Duplicate Recovery



Project Name: EME H-13 Leak

Work Order #: 285886

Lab Batch #: 700766			Project I	D:	
Date Analyzed: 07/19/2007 Date Pr	epared: 07/1	9/2007	Analy	st: WRU	
QC- Sample ID: 285882-001 D	atch #: 1		Matri	x: Water	
Reporting Units: mg/L	SAMPLE	SAMPLE	DUPLIC.	ATE RECO	OVERY
Alkalinity by EPA 310.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Total (as CaCO3)	308	312	1	20	
Lab Batch #: 700599	<u></u>		. L	· · · · · · · · · · · · · · · · · · ·	· · · · ·
Date Analyzed: 07/18/2007 Date Pr	epared: 07/1	8/2007	Analy	st: LATCOR	ł
QC- Sample ID: 285873-001 D	Batch #: 1		Matr	ix: Water	
Reporting Units: mg/L	SAMPLE	/ SAMPLE	DUPLIC	ATE RECO	OVERY
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	549	549	0	20	
Sulfate	1830	1810		20	
Lab Batch #: 700406					
Date Analyzed: 07/13/2007 Date Pr	epared: 07/1	3/2007	Analy	st: LATCOF	ł
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D I	epared: 07/1 Batch #:	3/2007	Analy Matr	st: LATCOF	
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D H Reporting Units: mg/L H	epared: 07/1 Batch #: 1 SAMPLE	3/2007 / SAMPLE	Analy Matr DUPLIC	st: LATCOF ix: Water ATE REC	OVERY
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D Reporting Units: mg/L Metals per ICP by SW846 6010B Analyte	epared: 07/1 Batch #: SAMPLE Parent Sample Result [A]	3/2007 / SAMPLE Sample Duplicate Result [B]	Analy Matr DUPLIC RPD	st: LATCOF ix: Water ATE REC Control Limits %RPD	OVERY Flag
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D I Reporting Units: mg/L I Metals per ICP by SW846 6010B Analyte Calcium I	epared: 07/1 Batch #: 1 SAMPLE Parent Sample Result [A]	3/2007 / SAMPLE Sample Duplicate Result [B]	Analy Matr DUPLIC RPD	st: LATCOR ix: Water ATE RECO Control Limits %RPD	OVERY Flag
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D H Reporting Units: mg/L Metals per ICP by SW846 6010B Analyte Calcium Magnesium	epared: 07/1 Batch #: 1 SAMPLE Parent Sample Result [A] 139 ND	3/2007 / SAMPLE Sample Duplicate Result [B] 139 32.6	Analy Matr DUPLIC RPD 0 NC	st: LATCOR ix: Water ATE RECO Control Limits %RPD 25 25	OVERY Flag
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D H Reporting Units: mg/L Metals per ICP by SW846 6010B Analyte Calcium Magnesium Potassium	epared: 07/1 Batch #: SAMPLE Parent Sample Result [A] 139 ND 5.09	3/2007 / SAMPLE Sample Duplicate Result [B] 139 32.6 4.54	Analy Matr DUPLIC RPD 0 NC 11	st: LATCOR ix: Water ATE RECO Control Limits %RPD 25 25 25 25	OVERY Flag
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D H Reporting Units: mg/L Metals per ICP by SW846 6010B Analyte Calcium Magnesium Potassium Sodium	epared: 07/1 Batch #: 1 SAMPLE Parent Sample Result [A] 139 ND 5.09 106	3/2007 / SAMPLE Sample Duplicate Result [B] 139 32.6 4.54 104	Analy Matr DUPLIC RPD 0 NC 11 2	st: LATCOR ix: Water ATE RECO Control Limits %RPD 25 25 25 25 25 25	OVERY Flag
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D I Reporting Units: mg/L I Metals per ICP by SW846 6010B Analyte Calcium Analyte Calcium Sodium Potassium Sodium Lab Batch #: 700387 Date Analyzed: 07/13/2007 Date Pr OC- Sample ID:	epared: 07/1 Batch #: Parent Sample Result [A] 139 ND 5.09 106 epared: 07/2 Batch #:	3/2007 / SAMPLE Sample Duplicate Result [B] 139 32.6 4.54 104 13/2007	Analy Matr DUPLIC RPD 0 NC 11 2 Analy Matr	st: LATCOR ix: Water ATE RECO Control Limits %RPD 25 25 25 25 25 25 25 25 25	VERY Flag
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D H Reporting Units: mg/L H Metals per ICP by SW846 6010B Analyte Calcium Analyte Calcium Potassium Potassium Sodium Lab Batch #: 700387 Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285882-001 D H	epared: 07/1 Batch #: Parent Sample Result [A] 139 ND 5.09 106 epared: 07/2 Batch #: SAMPLE	3/2007 / SAMPLE Sample Duplicate Result [B] 139 32.6 4.54 104 13/2007 / SAMPLE	Analy Matr DUPLIC RPD 0 NC 11 2 Analy Matr DUPLIC	st: LATCOF	OVERY Flag
Date Analyzed: 07/13/2007 Date Pr QC- Sample ID: 285748-001 D H Reporting Units: mg/L H Metals per ICP by SW846 6010B Analyte Calcium Analyte Calcium Potassium Potassium Sodium Lab Batch #: 700387 Date Analyzed: 07/13/2007 Date Analyzed: 07/13/2007 Date Program Magnesium Reporting Units: mg/L Residue, Filterable (TDS) by EPA 160.1 Analyte	epared: 07/1 Batch #: Parent Sample Result [A] 139 ND 5.09 106 epared: 07/2 Batch #: SAMPLE Parent Sample Result [A]	3/2007 / SAMPLE Sample Duplicate Result [B] 139 32.6 4.54 104 13/2007 / SAMPLE Sample Duplicate Result [B]	Analy Matr DUPLIC RPD 0 NC 111 2 Analy Matr DUPLIC RPD	st: LATCOR ix: Water ATE RECO Control Limits %RPD 25 25 25 25 25 25 25 25 25 25 25 25 25	VERY Flag

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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TAT bisbrist XX D NPDES FedEx Lone Star Project Las 7 205 RZLAE 5 13 H LAA Chy a vyr uso ę SHE 22 '87 zzzz Ņ (EEEEEE 2 ١ 🛛 твкр Phone: 432-563-1800 Fax: 432-563-1713 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Ĥ 10 #-13 Temperature Upon Receipt: B1208 X318 aboratory Comments /OCs Free of Heads Report Format: 🖉 Standard Labels on containe Custody seals on Custody seals on Project Name: FME Sample Contain by Courier? AR IESPICEC # 0d (cr cor Project #: 7-72-07 / 2.3/ Date Time 3. ZS Time rozanne Qualarnet. com Date 7-12-67 Fozanne Qualoguet.com 1400 (1) (1) (1) (1) (1) (1) (1) 12600 West I-20 East Odessa, Texas 79765 Preservation A 8 of Contra O'S'H 1221-192(205) moth @ rices we . com HOR Project Manager Kristin Farn's Tope Kpape (rice swd.com 054 HON WOL FIDH 3 3 20 ~ Fax No: ah neowe-mail: 8.8 9:45 10;35 Hopps, New Mexico BB240 beiqme2 emil volues Company sceived by ELOT 7-10-67 Kpope & rice sud com Jpurvis & rice sud com Company Address. 122 W. Taylor Street eceived by: paidwes aren 2 = ABRANK Company Name RICE Operatives 7-12-57 12:3 Date 7me 7-12 3:26 Date Time ding Depth Environmental Lab of Texas (505) 393-9174 digad gainalge MONITOR WELL # 1 42 Ð FIELD CODE pecial Instructions: 2 (eace encid to: からない ORDER #: 7,95880 A Xenco Laboratories Company Sampler Signature: 202240L Telephone No: City/State/Zip: 2020~~~ (lab use only) ŝ 50 6 (Ajuo asn qej) #

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

Client:	Rice
Date/ Time:	7.12.67 3:25
.ab ID # :	an 188- 285896
nitials:	al

Sample Receipt Checklist

				Client Initia
#1	Temperature of container/ cooler?	Cres	No	5 .0
#2	Shipping container in good condition?	l Cer	No	
¥3	Custody Seals intact on shipping container/ cooler?	1 Kes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes)	No	Not Present
# 5	Chain of Custody present?	(es	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Ves	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples In proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Ve)	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#13	Sufficient sample amount for indicated test(s)?	Kes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#1	Subcontract of sample(s)?	Yes	No	NotApplicable
#2	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

Date/ Time:

Contact:

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Regarding:

Corrective Action Taken:

Check all that Apply:

See attached e-mail/ fax

Contacted by:

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event



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

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

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

Receiving Date: 10/03/07 Reporting Date: 10/09/07 Project Owner: NOT GIVEN Project Name: EME H-13 LEAK Project Location: T20S-R36E-SEC13 H~LEA COUNTY, NM Sampling Date: 10/01/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: SB Analyzed By: HM/KS

		Na	Ca	Mg	К	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(<i>u</i> S/cm)	(mgCaCO ₃ /L)
ANALYSIS DAT	ſE:	10/09/07	10/06/07	10/06/07	10/08/07	10/04/07	10/04/07
H13433-1	MONITOR WELL #1	646	316	127	9.00	5,410	232
H13433-2	MONITOR WELL #2	695	269	117	8.55	5,310	228
H13433-3	MONITOR WELL #3	647	276	119	9.15	5,330	224
	nan managina jana ana kana ana kana ana kana ana kana ana						
Quality Control	gaginamanang gagyini in an ana 'indan'i inanan, inana 'inana" inan'a y	NR	50.6	50.8	1.98	9,770	NR
True Value QC	na fangangan na panangan na manangan kanangan kanangan tanan kanangan tanan kanangan tanan kanan kanan kanan ka	NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	101	102	99.1	97.7	NR
Relative Percer	nt Difference	NR	2.5	3.2	3.6	< 0.1	NR
METHODS:		SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1

		CI	SO4	. CO3	HCO₃	pН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	DATE:	10/04/07	10/09/07	10/04/07	10/04/07	10/04/07	10/06/07
H13433-1	MONITOR WELL #1	1,550	300	0	283	7.11	3,264
H13433-2	MONITOR WELL #2	1,480	348	0	278	7.14	3,189
H13433-3	MONITOR WELL #3	1,440	332	0	273	7.13	3,257
Quality Cont	rol	500	45.6	NR	988	7.01	NR
True Value C	20	500	50.0	NR	1000	7.00	NR
% Recovery		100	91.3	NR	98.8	100	NR
Relative Per	cent Difference	< 0.1		NR	1.2	< 0.1	NR
METHODS:	tammas nyakt tamang angkant tarangkangkahthangan angka tindahangkangkan m	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

Chemist

10-10-67 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. Introd documents and the liable for incidental or consequential damages, including, without limitation, business interruptions, foss of use, or loss of profits incurred by client, its subsidiaries, alfiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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

Receiving Date: 10/03/07 Reporting Date: 10/05/07 Project Number: NOT GIVEN Project Name: EME H-13 LEAK Project Location: T20S-R36E-SEC13 H - LEA COUNTY, NM Sampling Date: 10/01/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: SB Analyzed By: CK

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)
					•
ANALYSIS DAT	E	10/04/07	10/04/07	10/04/07	10/04/07
H13433-1	MONITOR WELL #1	<0.001	<0.001	< 0.001	< 0.003
H13433-2	MONITOR WELL #2	<0.001	<0.001	< 0.001	<0.003
H13433-3	MONITOR WELL #3	< 0.001	< 0.001	<0.001	< 0.003
		2 4			
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e ana ama fami ama any provinsi mana mana amin' amin'ny mandritra amin'		and other a construct operational compariso			
Quality Control		0.105	0.102	0.101	0.103
True Value QC	· · · · · · · · · · · · · · · · · · ·	0.100	0.100	0.100	0.300
% Recovery		105	102	101	103
Relative Percen	t Difference	1.7	<0.1	0.9	< 0.1

METHOD: EPA SW-846 8021B

H13433b Rice

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A Xenco Laboratories Company

Analytical Report

Prepared for:

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

Project: EME H-13 Leak Project Number: None Given Location: T20S R36E Sec. 13 H- Lea County, NM

Lab Order Number: 7A29015

Report Date: 02/02/07

Rice Operating Co. 122 W. Taylor

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Hobbs NM, 88240

Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

ANALYTICAL REPORT FOR SAMPLES

Sample 1D	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7A29015-01	Water	01/24/07 09:35	01-29-2007 10:20
Monitor Well #2	7A29015-02	Water	01/24/07 10:55	01-29-2007 10:20
Monitor Well #3	7A29015-03	Water	01/24/07 12:05	01-29-2007 10:20

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

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Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7A29015-01) Water									
Benzene	ND	0.00100	mg/L	1	ÉA73103	01/31/07	01/31/07	EPA 8021B	
Toluene	ND	0.00100	"	n	"	"	"	n	
Ethylbenzene	ND	0.00100	"	11	р	"	"	п	
Xylene (p/m)	ND	0.00100	"	н	"	**		н	
Xylene (0)	ND	0.00100	н		"	**	"	· 11	
Surrogate: a,a,a-Trifluorotoluene		81.5 %	80-12	0	"	"	"	н	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-12	0	"	n	"	n	
Monitor Well #2 (7A29015-02) Water									
Benzene	ND	0.00100	mg/L	1	EA73103	01/31/07	02/01/07	EPA 8021B	,
Toluene	0.00139	0.00100	**	"	п	н	11		
Ethylbenzene	J [0.000281]	0.00100	ŧ	"	"	11	н '		
Xylene (p/m)	0.00135	0.00100	n	"	"	11	"	"	
Xylene (0)	J [0.000696]	0.00100	н	н		n	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	80-12	20	"	"	. п	"	
Monitor Well #3 (7A29015-03) Water									
Benzene	ND	0.00100	mg/L	1	EA73103	01/31/07	02/01/07	EPA 8021B	
Toluene	ND	0.00100	11	n	и	*	"	"	
Ethylbenzene	ND	0.00100	u	11	"	11	н		
Xylene (p/m)	ND	0.00100	"	"	"		n		
Xylene (0)	ND	0.00100	**	"	"	11	**	H	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-12	20		"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	80-12	20	n	"		11	

Environmental Lab of Texas

A Xenco Laboratories Company

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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Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7A29015-01) Water								<u>.</u>	
Total Alkalinity	226	2.00	mg/L	1	EA73003	01/30/07	01/30/07	EPA 310.1M	
Chloride	1610	25.0	. "	50	EA72918	01/29/07	01/30/07	EPA 300.0	
Total Dissolved Solids	2940	10.0	н	1	EA73007	01/29/07	01/30/07	EPA 160,1	
Sulfate	292	25.0	11	50	EA72918	01/29/07	01/30/07	EPA 300.0	
Monitor Well #2 (7A29015-02) Water									
Total Alkalinity	212	2.00	mg/L	1	EA73003	01/30/07	01/30/07	EPA 310.1M	
Chloride	1660	25.0	"	50	EA72918	01/29/07	01/30/07	EPA 300.0	
Total Dissolved Solids	2890	10.0	н	1	EB70206	01/31/07	02/01/07	EPA 160,1	
Sulfate	300	25.0	"	50	EA72918	01/29/07	01/30/07	EPA 300.0	
Monitor Well #3 (7A29015-03) Water									
Total Alkalinity	224	2.00	ing/L	1	EA73003	01/30/07	01/30/07	EPA 310.1M	
Chloride	1570	25.0	× "	50	EA72918	01/29/07	01/30/07	EPA 300.0	
Total Dissolved Solids	2820	10.0	п	1	EB70206	01/31/07	02/01/07	EPA 160.1	
Sulfate	398	25.0	"	50	EA72918	01/29/07	01/30/07	EPA 300.0	

Environmental Lab of Texas

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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 H-13 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	,

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7A29015-01) Water									
Calcium	350	20.2	mg/L	250	EA73006	01/30/07	01/31/07	EPA 6010B	
Magnesium	154	1.80	"	50	n	11	17		
Potassium	15.0	0.600	"	10		"	n	11	
Sodium	542	10.8	"	250	"	н	"	n	
Monitor Well #2 (7A29015-02) Water									
Calcium	350	20.2	mg/L	250	EA73006	01/30/07	01/31/07	EPA 6010B	
Magnesium	151	1,80	"	50	**	н	"	"	
Potassium	13.9	0.600		10	п	"	"	11	
Sodium	525	10.8	н	250	н	"	U	n	
Monitor Well #3 (7A29015-03) Water									
Calcium	300	20.2	mg/L	250	EA73006	01/30/07	01/31/07	EPA 6010B	
Magnesium	122	1.80	"	50	17	U	п	н	
Potassium	12.2	0.600	"	10	"	"	u.	"	
Sodium	647	10.8		250	"	**	"		

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Pr Project Nu Project Mat	oject: EM mber: No nager: Kri	lE H-13 Leal ne Given stin Farris-P	k ope				Fax: (505)	397-147
	0	rganics by	GC - Q	uality Co	ontrol					
		Environm	ental L	ab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA73103 - EPA 5030C (GC)										_
Blank (EA73103-BLK1)				Prepared: (01/31/07 A	nalyzed: 02	2/01/07			
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	39.2		ug/l	40.0		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8	80-120			
LCS (EA73103-BS1)				Prepared:	01/31/07 A	nalyzed: 02	2/01/07			
Benzene	0.0535	0.00100	mg/L	0.0500		107	80-120			
Toluene	0.0516	0.00100	"	0.0500		103	80-120			
Ethylbenzene	0.0473	0.00100		0.0500		94.6	80-120			
Xylene (p/m)	0.0912	0.00100	"	0.100		91.2	80-120			
Xylene (0)	0.0425	0.00100	"	0.0500		85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.3		ugʻl	40.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	45.6		. "	40.0		114	80-120			
Caliburation Cheak (EA72102 CCVI)				р. <i>1</i> .	01/01/07	1 1 07	100.07			

ıg/l	50.0	92.4	
		63.4	80-120
"	50,0	87.2	80-120
"	50.0	96.2	80-120
"	100	86.1	80-120
	50.0	84.0	80-120
"	40,0	94.2	80-120
n	40.0	89.8	80-120
-	n n n	" 50.0 " 50.0 " 100 " 50.0 " 40.0 " 40.0	" 50.0 87.2 " 50.0 96.2 " 100 86.1 " 50.0 94.2 " 40.0 89.8

Matrix Spike (EA73103-MS1)	Sou	rce: 7A29015-	.03	Prepared: 0	1/31/07 A	nalyzed: 02	2/01/07
Benzene	0.0446	0.00100	mg/L	0.0500	ND	89.2	80-120
Toluene	0.0477	0.00100		0.0500	ND	95.4	80-120
Ethylbenzene	0.0492	0.00100	"	0.0500	ND	98.4	80-120
Xylene (p/m)	0.0953	0.00100	"	0.100	ND	95.3	80-120
Xylene (0)	0.0427	0.00100	"	0.0500	ND	85.4	80-120
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/l	40.0		104	80-120
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120

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

Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control

Environmental Lab of Texas

ŀ		Reporting		Spike	Source		%REC		RPD	
A	nalyte Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EA73103 - EPA 5030C (GC)

Matrix Spike Dup (EA73103-MSD1)	Sou	Source: 7A29015-03			1/31/07 A	2/01/07			
Benzene	0.0456	0.00100	mg/L	0.0500	ND	91.2	80-120	2.22	20
Toluene	0.0477	0.00100	н	0.0500	ND	95.4	80-120	0.00	20
Ethylbenzene	0.0467	0.00100	н	0.0500	ND	93.4	80-120	5.21	20
Xylene (p/m)	0.0930	0.00100	ч	0.100	ND	93.0	80-120	2.44	20
Xylene (o)	0.0407	0.00100		0.0500	ND	81.4	80-120	4.80	20
Surrogate: a,a,a-Trifluorotoluene	+2.2		ug/l	40.0		106	80-120		
Surrogate: 4-Bromofluorobenzene	39.1		"	40.0		97.8	80-120		

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Page 6 of 10

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General Cl	nemistry Parai	meters by	EPA /	Standard	l Metho	ds - Qua	lity Cont	trol		
		Environmental Lab of Texas								
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA72918 - General Preparation (WetChem)				<u></u>					
Blank (EA72918-BLK1)				Prepared:	01/29/07	Analyzed: 01	/30/07			
Sulfate	0.465	0.500	mg/L	· · · · · · · · · · · · · · · · · · ·						
Chloride	ND	0.500	11							
LCS (EA72918-BS1)				Prepared:	01/29/07	Analyzed: 01	/30/07			
Sulfate	11.9	0.500	mg/L	10.0		119	80-120			
Chloride	11.5	0.500	"	10.0		115	80-120			
Calibration Check (EA72918-CCV1)				Prepared:	01/29/07	Analyzed: 01	/30/07			
Chloride	10.8		mg/L	10.0		108	80-120			
Calibration Check (EA72918-CCV2)				Prepared:	01/29/07	Analyzed: 01	/30/07			
Chloride	0.00		mg/L	10.0			80-120			
Sulfate	0.00		"	10.0			80-120			
Duplicate (EA72918-DUP1)	Sour	ce: 7A29004	-01	Prepared:	01/29/07	Analyzed: 01	1/30/07			
Chloride	3250	50.0	mg/L		3270			0.613	20	
Sulfate	529	50.0	"		554			4.62	20	
Duplicate (EA72918-DUP2)	Sour	ce: 7A29015	-01	Prepared:	01/29/07	Analyzed: 0	1/30/07			
Chloride	1610	25.0	mg/L		1610			0.00	20	
Sulfate	295	25.0	"		292			1.02	20	
Matrix Spike (EA72918-MS1)	Sour	ce: 7A29004-	-01	Prepared:	01/29/07	Analyzed: 0	1/30/07			
Sulfate	1580	50.0	mg/L	1000	554	103	80-120			·
Chloride	4220	50.0	"	1000	3270	95.0	80-120			
Matrix Spike (EA72918-MS2)	Sour	ce: 7A29015-	-01	Prepared:	01/29/07	Analyzed: 01	/30/07			S-
Chloride	2230	25.0	mg/L	500	1610	124	80-120			
Sulfate	851	25.0	н	500	292	112	80-120			

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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 EA73003 - General Preparation (Wet	Chem)									
Blank (EA73003-BLK1)				Prepared &	k Analyzed	: 01/30/07				
Total Alkalinity	ND	2.00	mg/L			· · · · · · · · · · · · · · · · · · ·				
LCS (EA73003-BS1)				Prepared &	k Analyzed	: 01/30/07				
Bicarbonate Alkalinity	184	2.00	mg/L	200		92.0	85-115			
Duplicate (EA73003-DUP1)	Sou	rce: 7A29013-	01	Prepared &	k Analyzed	: 01/30/07				
Total Alkalinity	254	2.00	mg/L		256			0.784	20	
Reference (EA73003-SRM1)				Prepared &	2 Analyzed	: 01/30/07				
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch EA73007 - Filtration Preparation										
Blank (EA73007-BLK1)				Prepared:	01/29/07 A	nalyzed: 01	/30/07			
Total Dissolved Solids	ND	10.0	mg/L	·····						
Duplicate (EA73007-DUP1)	Sou	rce: 7A29004	-01	Prepared:	01/29/07 A	nalyzed: 0	1/30/07			
Total Dissolved Solids	5220	10.0	mg/L		5220			0.00	20	
Batch EB70206 - Filtration Preparation										
Blank (EB70206-BLK1)		a.e		Prepared	01/31/07 A	nalyzed: 02	2/01/07			
Total Dissolved Solids	ND	10.0	mg/L						1. 1. 1 ₁₁₀	
Duplicate (EB70206-DUP1)	Sou	rce: 7A29012	-01	Prepared:	01/31/07 A	nalyzed: 02	2/01/07			
Total Dissolved Solids	1170	10.0	mg/L		1120		., , .	4.37	20	

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

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Project: EME H-13 Leak Project Number: None Given

Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

		Environm	iental I	Lab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA73006 - 6010B/No Digestion				, 						
Blank (EA73006-BLK1)				Prepared: (01/30/07 A	nalyzed: 01	/31/07			
Calcium	ND	0.0810	mg/L	,						
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600								
Sodium	ND	0.0430	н							
Calibration Check (EA73006-CCV1)				Prepared: (01/30/07 A	nalyzed: 01	/31/07			
Calcium	2.05		mg/L	2.00		102	85-115			
Magnesium	2.13		"	2.00		106	85-115			
Potassium	1.81		"	2.00		90.5	85-115			
Sodium	1.90		"	2.00		95.0	85-115			
Duplicate (EA73006-DUP1)	Sour	rce: 7A29012	-01	Prepared:	01/30/07 A	nalyzed: 01	/31/07			
Calcium	104	4.05	mg/L		102			1.94	20	
Magnesium	44.4	0.360			46.5			4.62	20	
Potassium	9.46	0.600			10.0			5.55	20	
Sodium	234	2.15	"		239			2.11	20	

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Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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		Notes and Definitions
	S-08	Value outside Laboratory historical or method prescribed QC limits.
	J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
	В	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
	DET	Analyte DETECTED
	ND	Analyte NOT DETECTED at or above the reporting limit
	NR	Not Reported
	dry	Sample results reported on a dry weight basis
	RPD	Relative Percent Difference
	LCS	Laboratory Control Spike
	MS	Matrix Spike
	Dup	Duplicate

Report Approved By:

Date: 2/2/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

lient:	Rive Dp.	
ste/ Time:	1/29/07 10:20	
3b ID # :	17A29015	
itials:	Cle	

Sample Receipt Checklist

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-	· · · · · · · · · · · · · · · · · · ·			C	lient initials
1	Temperature of container/ cooler?	Yes	No	-0.5 °C	
2	Shipping container in good condition?	(es)	No		
3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
3	Chain of Custody present?	100	No		
3	Sample instructions complete of Chain of Custody?	Fes	No		
7	Chain of Custody signed when relinquished/ received?	Xes	No		
3	Chain of Custody agrees with sample label(s)?	Tes	No	ID written on Cont./ Lid	
3	Container label(s) legible and intact?	Xee	No	Not Applicable	
10	Sample matrix/ properties agree with Chain of Custody?	Fes	Νo		
11	Containers supplied by ELOT?	Yes	No		
12	Samples in proper container/ bottle?	A fes	No	See Below	
13	Samples properly preserved?	Yes	No	See Below	
14	Sample bottles intact?	Yes	No		
15	Preservations documented on Chain of Custody?	Yes	No		
16	Containers documented on Chain of Custody?	Tes	No		
17	Sufficient sample amount for indicated test(s)?	res	No	See Below	
18	All samples received within sufficient hold time?	Yes	No	See Below	
19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
20	VOC samples have zero headspace?	des	No	Not Applicable	

Variance Documentation

ontact:	 Contacted by:	Date/ Time:
egarding:		
orrective Action Taken		
·	 	
heck all that Apply:	See attached e-mail/ fax Client understands and would I Cooling process had begun sh	ike to proceed with analysis ortly after sampling event