

1R - 427 - 91

REPORTS

DATE:

1 - 28 - 2005

RICE Operating Company

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

CERTIFIED MAIL

RETURN RECEIPT NO. 7002 2410 0000 4940 1831

January 28, 2005

RECEIVED

FEB 1 2 2005

Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505

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 MONITOR WELL REPORT/SAMPLING SUMMARY
JUNCTION E-5, EME SWD SYSTEM
UNIT 'E', SEC. 5, T20S, R37E
NMOCD CASE #1R0427-91**

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2004 Monitor Well Report for the EME E-5 junction box site located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. One monitoring well was installed in 2002 during the delineation of a junction box. This well is sampled quarterly pursuant to NMOCD guidelines. In 2004, ROC and Arcadis G&M, Inc. of Midland, Texas sampled the well. In 2005, Trident Environmental of Midland will sample the well and Environmental Lab of Texas of Odessa will continue to conduct analytical tests of the water samples.

R. T. Hicks Consultants of Albuquerque has been contracted by ROC to address groundwater concerns at this site. NMOCD may expect the submission of an Investigation & Characterization Plan (ICP) this year.

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.

RICE OPERATING COMAPANY

Kristin Farris Pope

Kristin Farris Pope
Project Scientist

enclosures: Summary table & graph
 Analytical results
 Map

cc: LBG, CDH, Hicks, file, Rob Roy Industries,

Chris Williams
NMOCD, District I Office
1625 N. French Drive
Hobbs, NM 88240

EME Jct. E-5

(Marathon Barber)

unit 'E', Sec. 5, T20S, R37E

RICE Operating Company
Monitor Well Data Sheet

NMOCD Case #1R0427-91

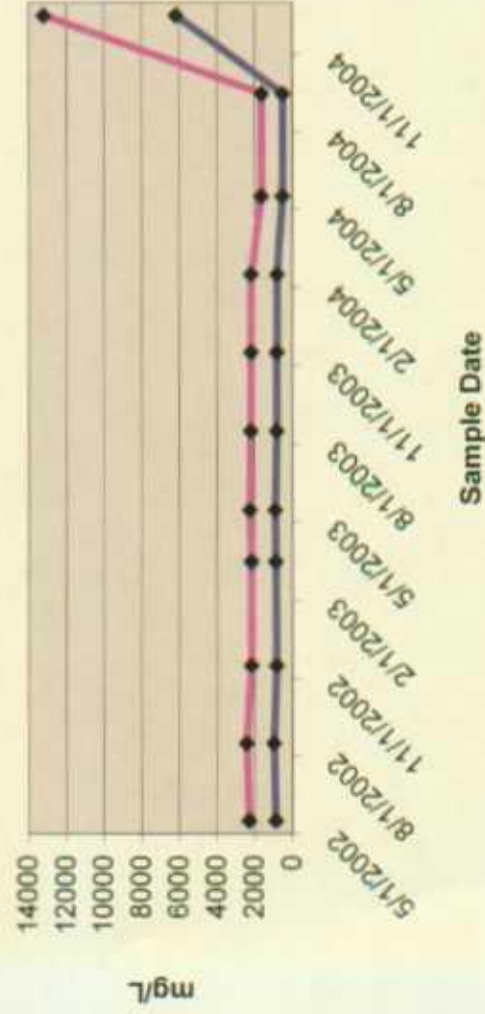
(ft) (gal)

All concentrations are in mg/L

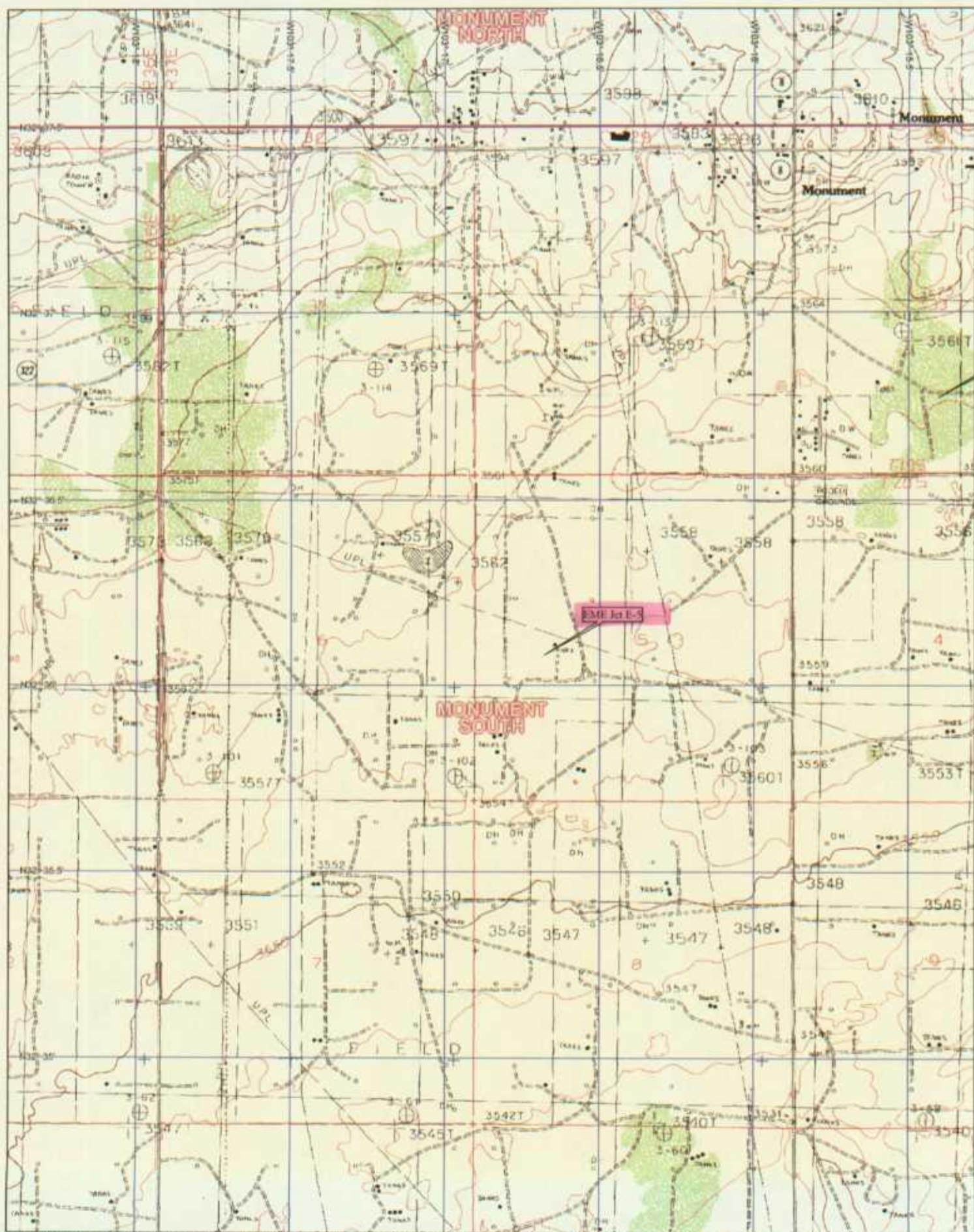
MW #	DEPTH TO WATER *	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	CT	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	COMMENTS
1	40.72	45.21	0.720	2.00	05/14/02	886	2300	<0.001	<0.001	<0.001	<0.001	Sandy w slow upflow
1	40.91	45.15	0.678	1.75	08/12/02	993	2440	<0.001	0.001	<0.001	<0.003	Clear, slow recharge
1	41.15	45.10	0.632	1.90	11/05/02	833	2180	<0.001	<0.001	<0.001	<0.001	
1	41.03	45.09	0.640	1.90	03/14/03	877	2170	<0.001	<0.001	<0.001	<0.001	
1	41.14	45.09	0.632	1.80	05/29/03	913	2270	<0.001	<0.001	<0.001	<0.001	
1	41.14	45.10	0.600	1.90	08/22/03	833	2210	<0.001	<0.001	<0.001	<0.001	
1	41.73	45.15	0.500	1.60	11/20/03	833	2200	<0.001	<0.001	<0.001	<0.001	
1	41.70	45.10	0.050	1.60	02/20/04	820	2200	<0.002	<0.002	<0.002	<0.006	
1	40.90	45.10	0.670	2.00	05/26/04	520	1657	<0.002	<0.002	<0.002	<0.006	
1	40.70	45.50	XXX	2.30	09/02/04	514	1640	0.000249	0.00115	0.000464	0.002206	Clear, slight hydrocarbon odor
1	30.20	40.00	XXX	4.95	12/21/04	6200	13200	<0.001	<0.001	<0.001	<0.001	tan; turbid

EME Jct. E-5 Monitor Well

— [Chloride] — [Total Dissolved Solids]



* Depth to water measured from top of casing
Casing is 3.021 ft





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 02/20/04
Reporting Date: 02/24/04
Project Number: NOT GIVEN
Project Name: MONITOR WELLS
Project Location: EME-E5

Sampling Date: 02/20/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
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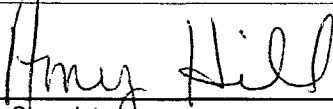
ANALYSIS DATE:	02/23/04	02/23/04	02/23/04	02/23/04	02/23/04	02/23/04
H8484-1 EME E-5	397	223	63	9.38	3705	471
Quality Control	NR	59	42	5.17	1322	NR
True Value QC	NR	50	50	5.00	1413	NR
% Recovery	NR	118	85	103	93.6	NR
Relative Percent Difference	NR	1.7	2.3	1.0	0.7	NR

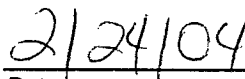
METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
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ANALYSIS DATE:	02/23/04	02/23/04	02/23/04	02/23/04	02/23/04	02/24/04
H8484-1 EME E-5	820	64	0	574	7.09	2200
Quality Control	1010	53.65	NR	1007	7.04	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	101	107	NR	101	101	NR
Relative Percent Difference	2.0	1.5	NR	1.1	0	1.4

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


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. Cardinal shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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

Receiving Date: 02/20/04
Reporting Date: 02/23/04
Project Number: NOT GIVEN
Project Name: MONITOR WELLS
Project Location: EME-E5

Sampling Date: 02/20/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		02/20/04	02/20/04	02/20/04	02/20/04
H8484-1	EME E-5	<0.002	<0.002	<0.002	<0.006
Quality Control		0.090	0.096	0.097	0.291
True Value QC		0.100	0.100	0.100	0.300
% Recovery		90.2	96.1	96.6	97.0
Relative Percent Difference		3.2	3.6	2.8	2.6

METHOD: EPA SW-846 8260


Chemist

2/23/04
Date

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

Page of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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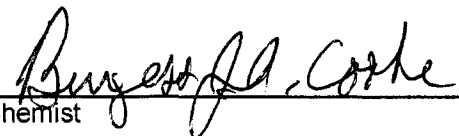
ANALYTICAL RESULTS FOR
RICE OPERATING
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

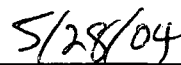
Receiving Date: 05/26/04
Reporting Date: 05/28/04
Project Number: NOT GIVEN
Project Name: EME-E-5-MW
Project Location: NOT GIVEN

Sampling Date: 05/26/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		05/27/04	05/27/04	05/27/04	05/27/04
H8744-1	E-5 M.W.	<0.002	<0.002	<0.002	<0.006
Quality Control		0.098	0.099	0.088	0.256
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97.9	98.9	87.7	85.4
Relative Percent Difference		7.4	5.0	1.8	3.6

METHOD: EPA SW-846 8260


Chemist


Date

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RICE OPERATING
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 05/26/04
Reporting Date: 05/28/04
Project Number: NOT GIVEN
Project Name: EME E-5 MW
Project Location: NOT GIVEN

Sampling Date: 05/26/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		05/27/04	05/27/04	05/27/04	05/27/04	05/27/04	05/27/04
H8744-1	E-5 M.W.	298	220	4.00	15.1	2494	452
Quality Control		NR	50	55	4.58	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	100	110	91.6	93.6	NR
Relative Percent Difference		NR	0	0	7.2	0.7	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	05/27/04	05/27/04	05/27/04	05/27/04	05/27/04	05/28/04
H8744-1 E-5 M.W.	520	47	0	551	7.13	1657
Quality Control	1010	48.21	NR	1007	6.95	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	101	96.4	NR	101	99.3	NR
Relative Percent Difference	2.0	6.2	NR	1.1	1.6	1.4

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

Date

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3144 Deschutes Avenue, TV 70000, 404 R

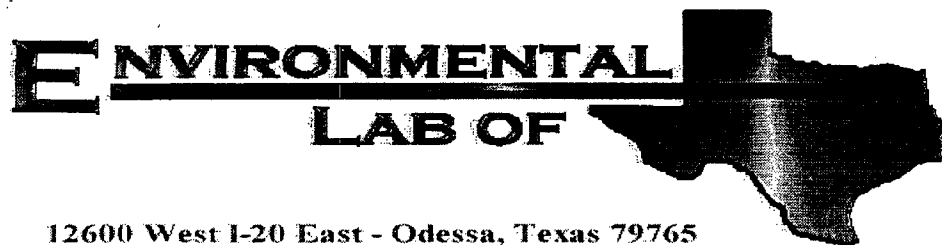
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Jct. E-5

Project Number: Jct E-5/510

Location: Rice Operating/EME

Lab Order Number: 4I03010

Report Date: 09/19/04

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4I03010-01	Water	09/02/04 13:50	09/03/04 16:59

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4103010-01) Water									
Benzene	J [0.000249]	0.00100	mg/L	1	EI41004	09/08/04	09/10/04	EPA 8021B	J
Toluene	0.00115	0.00100	"	"	"	"	"	"	
Ethylbenzene	J [0.000464]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	0.00122	0.00100	"	"	"	"	"	"	
Xylene (o)	J [0.000986]	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		111 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4103010-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI41608	09/03/04	09/03/04	EPA 310.2M	
Bicarbonate Alkalinity	446	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	514	5.00	"	"	EI40805	09/07/04	09/07/04	EPA 325.3M	
Total Dissolved Solids	1640	5.00	"	"	EI41607	09/09/04	09/09/04	EPA 160.1	
Sulfate	74.6	1.00	"	2	EI41312	09/10/04	09/10/04	EPA 375.4	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I03010-01) Water									
Calcium	124	1.00	mg/L	100	EI41506	09/15/04	09/15/04	EPA 6010B	
Magnesium	53.3	0.0100	"	10	"	"	"	"	
Potassium	9.01	0.500	"	"	"	"	"	"	
Sodium	206	1.00	"	100	"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41004 - EPA 5030C (GC)

Blank (EI41004-BLK1)

Prepared & Analyzed: 09/08/04

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	23.4		ug/l	20.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	18.3		"	20.0		91.5	80-120			

LCS (EI41004-BS1)

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	93.0		ug/l	100		93.0	80-120			
Toluene	95.0		"	100		95.0	80-120			
Ethylbenzene	95.1		"	100		95.1	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	16.7		"	20.0		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

LCS Dup (EI41004-BSD1)

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	96.3		ug/l	100		96.3	80-120	3.49	20	
Toluene	99.4		"	100		99.4	80-120	4.53	20	
Ethylbenzene	99.5		"	100		99.5	80-120	4.52	20	
Xylene (p/m)	206		"	200		103	80-120	4.98	20	
Xylene (o)	105		"	100		105	80-120	0.957	20	
Surrogate: a,a,a-Trifluorotoluene	18.0		"	20.0		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	21.9		"	20.0		110	80-120			

Calibration Check (EI41004-CCV1)

Prepared & Analyzed: 09/08/04

Benzene	94.3		ug/l	100		94.3	80-120			
Toluene	95.8		"	100		95.8	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	207		"	200		104	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.0		"	20.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41004 - EPA 5030C (GC)

Matrix Spike (EI41004-MS1) Source: 4I07001-01 Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	97.5		ug/l	100	ND	97.5	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	97.8		"	100	ND	97.8	80-120			
Xylene (p/m)	203		"	200	ND	102	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.2		"	20.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.9		"	20.0		104	80-120			

Matrix Spike Dup (EI41004-MSD1) Source: 4I07001-01 Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	99.0		ug/l	100	ND	99.0	80-120	1.53	20	
Toluene	101		"	100	ND	101	80-120	0.00	20	
Ethylbenzene	99.6		"	100	ND	99.6	80-120	1.82	20	
Xylene (p/m)	201		"	200	ND	100	80-120	1.98	20	
Xylene (o)	100		"	100	ND	100	80-120	1.98	20	
Surrogate: a,a,a-Trifluorotoluene	16.5		"	20.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.3		"	20.0		96.5	80-120			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI40805 - General Preparation (WetChem)										
Blank (EI40805-BLK1)				Prepared & Analyzed: 09/07/04						
Chloride	ND	5.00	mg/L							
Matrix Spike (EI40805-MS1)				Source: 4107001-06 Prepared & Analyzed: 09/07/04						
Chloride	1670	5.00	mg/L	500	1170	100	90-110			
Matrix Spike Dup (EI40805-MSD1)				Source: 4107001-06 Prepared & Analyzed: 09/07/04						
Chloride	1660	5.00	mg/L	500	1170	98.0	90-110	0.601	20	
Reference (EI40805-SRM1)				Prepared & Analyzed: 09/07/04						
Chloride	4960		mg/L	5000		99.2	80-120			
Batch EI41312 - General Preparation (WetChem)										
Blank (EI41312-BLK1)				Prepared & Analyzed: 09/10/04						
Sulfate	ND	0.500	mg/L							
Calibration Check (EI41312-CCV1)				Prepared & Analyzed: 09/10/04						
Sulfate	48.9		mg/L	50.0		97.8	80-120			
Duplicate (EI41312-DUP1)				Source: 4103010-01 Prepared & Analyzed: 09/10/04						
Sulfate	76.4	0.500	mg/L		74.6			2.38	20	
Batch EI41607 - Filtration Preparation										
Blank (EI41607-BLK1)				Prepared & Analyzed: 09/09/04						
Total Dissolved Solids	ND	5.00	mg/L							

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

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Project Number: Jct E-5/510
Project Manager: Sharon Hall

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Reported:
09/19/04 11:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41607 - Filtration Preparation

Duplicate (EI41607-DUP1) **Source: 4I03010-01** Prepared & Analyzed: 09/09/04

Total Dissolved Solids	1610	5.00	mg/L		1640			1.85	20	
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Batch EI41608 - General Preparation (WetChem)

Blank (EI41608-BLK1) Prepared & Analyzed: 09/03/04

Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							

Duplicate (EI41608-DUP1) **Source: 4I03010-01** Prepared & Analyzed: 09/03/04

Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	444	2.00	"		446			0.449	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Reference (EI41608-SRM1) Prepared & Analyzed: 09/03/04

Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
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ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41506 - General Preparation (Metals)

Blank (EI41506-BLK1)

Prepared & Analyzed: 09/15/04

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

Blank (EI41506-BLK2)

Prepared & Analyzed: 09/15/04

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

Calibration Check (EI41506-CCV1)

Prepared & Analyzed: 09/15/04

Calcium	2.03		mg/L	2.00		102	85-115
Magnesium	2.04		"	2.00		102	85-115
Potassium	1.75		"	2.00		87.5	85-115
Sodium	1.79		"	2.00		89.5	85-115

Calibration Check (EI41506-CCV2)

Prepared & Analyzed: 09/15/04

Calcium	1.93		mg/L	2.00		96.5	85-115
Magnesium	2.02		"	2.00		101	85-115
Potassium	1.76		"	2.00		88.0	85-115
Sodium	1.77		"	2.00		88.5	85-115

Duplicate (EI41506-DUP1)

Source: 4I03009-01

Prepared & Analyzed: 09/15/04

Calcium	281	1.00	mg/L	280		0.357	20
Magnesium	110	0.100	"	111		0.905	20
Potassium	8.18	0.500	"	8.31		1.58	20
Sodium	359	1.00	"	365		1.66	20

Environmental Lab of Texas

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

Page 9 of 11

ARCADIS	Project: Jct. E-5	Fax: (432) 687-5401
1004 N. Big Spring Street	Project Number: Jct E-5/510	Reported:
Midland TX, 79701	Project Manager: Sharon Hall	09/19/04 11:21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI41506 - General Preparation (Metals)

Duplicate (EI41506-DUP2)	Source: 4I10015-01			Prepared & Analyzed: 09/15/04						
Calcium	20.2	0.100	mg/L		20.2			0.00	20	
Magnesium	28.4	0.0100	"		28.6			0.702	20	
Potassium	16.4	0.500	"		16.6			1.21	20	
Sodium	103	0.100	"		103			0.00	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E-5
Project Number: Jct E-5/510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:21

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

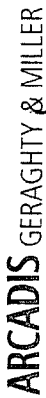
9-18-04

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 Biezugbe, Lab Tech.

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



Laboratory Task Order No./P.O. No.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name JCT. EB / 510

Project Location Rice Operative / EME

Laboratory Env. Lab of TX

Project Manager Kristin Faris Poe

Sampler(s)/Affiliation SC9 / ARCADIS

Sample ID/Location	Matrix	Date/Time Sampled	TIME	Temp	Remarks	Total
MW-1	L	9/2/04	1350	21	4103010-01	3
			</			

Sample Matrix: ξ = Liquid; η = Solid; θ = Air

Relinquished by: Charles J. J. Org...

Received by: Kalidev-763 Org: U

Relinquished by: _____ Org: _____

Received by: _____

Special Instructions/Remarks:

~~X~~ please

10

Delivery Method: ☒ In Person ☐ Online

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Archadis

Date/Time: 9-3-04

Order #: 41 G3010-01

Initials: AT

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Custody Seals intact on shipping container/cooler?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Not present
Custody Seals intact on sample bottles?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable

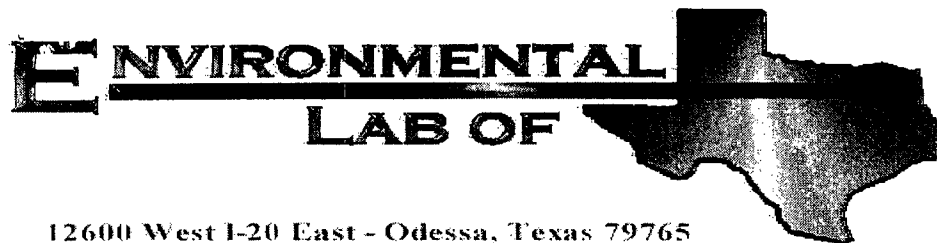
Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:



Analytical Report

Prepared for:

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Jct. E5/ 510

Project Number: Jct. E5/ 510

Location: Rice Operating/ EME

Lab Order Number: 4L22007

Report Date: 12/30/04

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
Project Number: Jct. E5/ 510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4L22007-01	Water	12/21/04 10:20	12/21/04 18:00

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
Project Number: Jct. E5/ 510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22007-01) Water									
Benzene	ND	0.00100	mg/L	1	EL43006	12/29/04	12/29/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.9 %	80-120		"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
Project Number: Jct. E5/ 510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22007-01) Water									
Total Alkalinity	230	2.00	mg/L	1	EL42907	12/29/04	12/29/04	EPA 310.2M	
Chloride	6200	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	13200	5.00	"	"	EL42301	12/22/04	12/23/04	EPA 160.1	
Sulfate	531	6.25	"	12.5	EL42909	12/29/04	12/29/04	EPA 375.4	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
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Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22007-01) Water									
Calcium	1560	10.0	mg/L	1000	EL42212	12/22/04	12/22/04	EPA 6010B	
Magnesium	436	0.100	"	100	"	"	"	"	
Potassium	44.9	0.500	"	10	"	"	"	"	
Sodium	2000	10.0	"	1000	"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
Project Number: Jct. E5/ 510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL43006 - EPA 5030C (GC)

Blank (EL43006-BLK1)

Prepared & Analyzed: 12/29/04

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	100		ug/l	100		100	80-120			
Surrogate: 4-Bromofluorobenzene	91.9		"	100		91.9	80-120			

LCS (EL43006-BS1)

Prepared & Analyzed: 12/29/04

Benzene	86.8		ug/l	100		86.8	80-120			
Toluene	85.1		"	100		85.1	80-120			
Ethylbenzene	86.6		"	100		86.6	80-120			
Xylene (p/m)	191		"	200		95.5	80-120			
Xylene (o)	92.9		"	100		92.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.1	80-120			

Calibration Check (EL43006-CCV1)

Prepared & Analyzed: 12/29/04

Benzene	89.5		ug/l	100		89.5	80-120			
Toluene	89.6		"	100		89.6	80-120			
Ethylbenzene	91.8		"	100		91.8	80-120			
Xylene (p/m)	201		"	200		100	80-120			
Xylene (o)	99.5		"	100		99.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	115		"	100		115	80-120			
Surrogate: 4-Bromofluorobenzene	95.0		"	100		95.0	80-120			

Matrix Spike (EL43006-MS1)

Source: 4L22001-05

Prepared & Analyzed: 12/29/04

Benzene	90.0		ug/l	100	ND	90.0	80-120			
Toluene	91.6		"	100	ND	91.6	80-120			
Ethylbenzene	91.4		"	100	ND	91.4	80-120			
Xylene (p/m)	201		"	200	ND	100	80-120			
Xylene (o)	95.8		"	100	ND	95.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

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Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL43006 - EPA 5030C (GC)

Matrix Spike Dup (EL43006-MSD1)

Source: 4L22001-05

Prepared & Analyzed: 12/29/04

Benzene	93.0		ug/l	100	ND	93.0	80-120	3.28	20	
Toluene	94.6		"	100	ND	94.6	80-120	3.22	20	
Ethylbenzene	92.4		"	100	ND	92.4	80-120	1.09	20	
Xylene (p/m)	201		"	200	ND	100	80-120	0.00	20	
Xylene (o)	95.6		"	100	ND	95.6	80-120	0.209	20	
Surrogate: a,a,a-Trifluorotoluene	118		"	100		118	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

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Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42301 - 413.1										
Blank (EL42301-BLK1)					Prepared: 12/22/04 Analyzed: 12/23/04					
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EL42301-DUP1)					Source: 4L21010-01 Prepared: 12/22/04 Analyzed: 12/23/04					
Total Dissolved Solids	590	5.00	mg/L		567			3.98	20	
Batch EL42907 - General Preparation (WetChem)										
Blank (EL42907-BLK1)					Prepared & Analyzed: 12/29/04					
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EL42907-DUP1)					Source: 4L22002-01 Prepared & Analyzed: 12/29/04					
Total Alkalinity	181	2.00	mg/L		182			0.551	20	
Reference (EL42907-SRM1)					Prepared & Analyzed: 12/29/04					
Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
Batch EL42908 - General Preparation (WetChem)										
Blank (EL42908-BLK1)					Prepared & Analyzed: 12/29/04					
Chloride	ND	5.00	mg/L							
Matrix Spike (EL42908-MS1)					Source: 4L21010-01 Prepared & Analyzed: 12/29/04					
Chloride	390	5.00	mg/L	250	155	94.0	80-120			
Matrix Spike Dup (EL42908-MSD1)					Source: 4L21010-01 Prepared & Analyzed: 12/29/04					
Chloride	394	5.00	mg/L	250	155	95.6	80-120	1.02	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
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Project Manager: Sharon Hall

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Reported:
12/30/04 12:19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL42908 - General Preparation (WetChem)

Reference (EL42908-SRM1)

Prepared & Analyzed: 12/29/04

Chloride	4960		mg/L	5000		99.2	80-120			
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Batch EL42909 - General Preparation (WetChem)

Blank (EL42909-BLK1)

Prepared & Analyzed: 12/29/04

Sulfate	ND	0.500	mg/L							
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Calibration Check (EL42909-CCV1)

Prepared & Analyzed: 12/29/04

Sulfate	48.9		mg/L	50.0		97.8	80-120			
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Duplicate (EL42909-DUP1)

Source: 4L21010-01

Prepared & Analyzed: 12/29/04

Sulfate	96.6	1.00	mg/L		99.8			3.26	20	
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ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
Project Number: Jct. E5/ 510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EL42212 - 6010B/No Digestion

Blank (EL42212-BLK1)

Prepared & Analyzed: 12/22/04

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

Calibration Check (EL42212-CCV1)

Prepared & Analyzed: 12/22/04

Calcium	2.10		mg/L	2.00		105	85-115			
Magnesium	2.12		"	2.00		106	85-115			
Potassium	2.03		"	2.00		102	85-115			
Sodium	1.82		"	2.00		91.0	85-115			

Duplicate (EL42212-DUP1)

Source: 4L21010-01

Prepared & Analyzed: 12/22/04

Calcium	55.1	0.100	mg/L		57.3			3.91	20	
Magnesium	13.2	0.0100	"		13.0			1.53	20	
Potassium	12.5	0.500	"		13.2			5.45	20	
Sodium	105	1.00	"		112			6.45	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. E5/ 510
Project Number: Jct. E5/ 510
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 12:19

Notes and Definitions

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

Report Approved By: _____

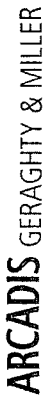
Date: _____

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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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

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



Laboratory Task Order No./P.O. No.:

CHAIN-OF-CUSTODY RECORD

Page

of

Project Number/Name CT 65 / 510Project Location Rice Operating / ENGE

Laboratory Environmental Lab of Texas

Kristin Farris Pope
Project Manager

Sampler(s)/Affiliation	GC/ARCADIS
<p> GC/ARCADIS </p>	<p> GC/ARCADIS </p>

Sample ID/Location	Matrix	Date/ Time Sampled	Time Lab ID
--------------------	--------	----------------------------------	----------------

[illegible]

Sample Matrix: L = Liquid; S = Solid; A = Air

Belinallished by: Ed J. Ord

Received by _____
Remitted by: _____
Ora _____
Ora _____

Replenished by: _____

Received by: _____
 Acquired by: _____

Special Instructions/Remarks:

Delivery Method: ☒ In Person

☐ Common Carrier☐ Lab Courier☐ Other

SPECIFY

SPECIES

AG 05-0597

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Arcadis

Date/Time: 12-21-04 @ 1800

Order #: 4L22007

Initials: JMM

Sample Receipt Checklist

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

Other observations:

Variance Documentation:

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

Corrective Action Taken:
