

1R - 427-271

REPORTS

DATE:

1-27-09

EME Jct C-6

1R427-271

RECEIVED

MAR 25 2009

Environmental Bureau
Oil Conservation Division

CLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Eunice Monument Eumont (EME)	Jct. C-6	C	6	21S	36E	Lea	Length 6'	Width 8'	Depth 5'
							eliminated		

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 135 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 8/21/2008 Date Completed 10/1/2008 OCD Witness no

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date 9/15/2008, 9/25/2008 Sample Depth 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX, and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	<0.050	<0.050	0.212	0.481	<25.0	117	144
BOTTOM COMP.	0.498	1.19	7.99	21.4	434	834	272
BLENDED BACKFILL	<0.050	<0.050	0.2725	0.771	104	1050	320

CHLORIDE FIELD TESTS

General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the former junction was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x30x12-ft-deep excavation. Chloride field tests were performed on each sample, which yielded generally low concentrations. Organic vapors measured using a PID yielded some elevated concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride, TPH, and BTEX which confirmed low concentrations. The excavated soil was blended on-site, returned to the excavation to ground surface, and contoured to the surrounding area. On 10/1/2008, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at normal rate.

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	173
bottom comp.	12'	273
blended backfill	n/a	121
background	6"	197
vertical delineation trench at 15 ft south of the junction (source)	1'	150
	2'	116
	3'	142
	4'	119
	5'	117
	6'	115
	7'	126
	8'	117
	9'	147
	10'	114
	11'	146
	12'	88

enclosures: photos, lab results, PID field screening,
BTEX study, chloride curve

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Eric Garrison SIGNATURE *Eric Garrison* COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 1-27-09

EME Jct. C-6

Unit C, Section 6, T21S, R36E



former junction box site, facing south

8/21/2008



collecting a soil sample

8/29/2008



excavating at former junction site, facing south

9/2/2008



blending excavated soil, facing north

9/17/2008



backfilling excavation, facing east

10/1/2008



seeding backfilled site, facing north

10/1/2008



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

Receiving Date: 09/15/08
Reporting Date: 09/17/08
Project Number: NOT GIVEN
Project Name: EME JCT C-6
Project Location: EME JCT C-6

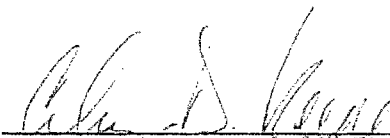
Sampling Date: 09/15/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

COPY

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
		09/16/08	09/16/08	09/16/08
H15934-1	4 WALL COMP 30'x30'	<25.0	117	144
Quality Control		475	474	490
True Value QC		500	500	500
% Recovery		95.0	94.8	98.0
Relative Percent Difference		9.1	18.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

*Analysis performed on a 1:4 w:v aqueous extract.


Lab Director


Date

H15934 TCL RICE

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

Receiving Date: 09/15/08
Reporting Date: 09/17/08
Project Number: NOT GIVEN
Project Name: EME JCT C-6
Project Location: EME JCT C-6

Sampling Date: 09/15/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

COPY

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
------------	-----------	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE	09/16/08	09/16/08	09/16/08	09/16/08
H15934-1 4 WALL COMP 30'X30'	<0.050	<0.050	0.212	0.481
H15934-2-5 4 WALL COMP. N, E, W, S	<0.050	<0.050	0.114	0.246
WALLS				
Quality Control	0.049	0.045	0.045	0.156
True Value QC	0.050	0.050	0.050	0.150
% Recovery	98.0	90.0	90.0	104
Relative Percent Difference	10.4	12.6	17.3	6.8

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.

Lab Director

Date

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Rice Rice and Sons</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Eric Carpenter</u>		Company:					
Address: <u>1220 W. Taylor</u>		Attn:					
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Address:					
Phone #: <u>393-9174</u> Fax #: <u>(505) 397-1471</u>		City:					
Project #:		State:		Zip:			
Project Name: <u>EMERGENCY</u>		Phone #:					
Project Location: <u>EMERGENCY</u>		Fax #:					
Sampler Name: <u>ERIC CARPENTER</u>							
Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME
H15934-1	4 WALL COMP 30' X 30'	2	GROUNDWATER	ACID/BASE		9-15-08	13:45
-2	4 WALL COMP 11' WELL	2	WASTEWATER	ICE / COOL		9-15-08	11:55
-3	4 WALL COMP EAST WALL	2	SLUDGE	OTHER		9-15-08	13:00
-4	4 WALL COMP WEST WALL	2	SOIL			9-15-08	13:40
-5	4 WALL COMP SOUTH WALL	2	OTHER			9-15-08	13:30

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Relinquished By: <u>Eric Carpenter</u>	Date: <u>9/15/08</u>	Received By: <u>Marty K. But</u>	Phone Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: _____	Time: <u>4:55</u>	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	REMARKS: <u>Results</u> <u>Baver@Ricesad.com</u> <u>Shavis@Ricesad.com</u>	



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

COPY

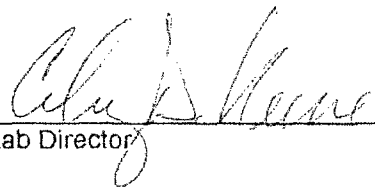
Receiving Date: 09/15/08
Reporting Date: 09/17/08
Project Number: NOT GIVEN
Project Name: EME JCT C-6
Project Location: EME JCT C-6

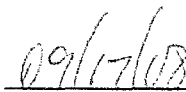
Sampling Date: 09/15/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
		09/16/08	09/16/08	09/16/08
H15933-1	5PT BOTTOM COMP 12'	434	834	272
Quality Control		475	474	500
True Value QC		500	500	500
% Recovery		95.0	94.8	100
Relative Percent Difference		9.1	18.2	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI/B

*Analysis performed on a 1:4 w:v aqueous extract.


Lab Director


Date

H15933 TCL RICE

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

COPY

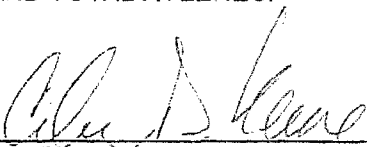
Receiving Date: 09/15/08
Reporting Date: 09/17/08
Project Number: NOT GIVEN
Project Name: EME JCT C-6
Project Location: EME JCT C-6

Sampling Date: 09/15/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	ETHYL TOTAL			
		BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE		09/16/08	09/16/08	09/16/08	09/16/08
H15933-1	5PT BOTTOM COMP 12'	0.498	1.19	7.99	21.4
H15933-2-6	5 PT BTM #1 - #5 COMPOSITE	0.178	0.971	7.37	19.5
Quality Control		0.049	0.045	0.045	0.156
True Value QC		0.050	0.050	0.050	0.150
% Recovery		98.0	90.0	90.0	104
Relative Percent Difference		10.4	12.6	17.3	6.8

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.



Lab Director

09/17/08

Date

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Rice Operating</u>		P.O. #:		ANALYSIS REQUEST																			
Project Manager: <u>Eric Garrison</u>		Company:		<div style="text-align: center; font-size: 48px; transform: rotate(-45deg); opacity: 0.5;">COPY</div>																			
Address: <u>122 W Taylor</u>		Attn:																					
City: <u>Hobbs NM</u>		State: <u>NM</u> Zip: <u>88240</u>																					
Phone #: <u>393-9174</u>		Fax #: <u>(505) 393-1471</u>																					
Project #:		Project Owner:																					
Project Name: <u>EME XT C-6</u>		State: Zip:																					
Project Location: <u>EME XTE-6</u>		Phone #:																					
Sampler Name: <u>ERIC GARRISON</u>		Fax #:																					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																	
Lab I.D.		# CONTAINERS		(G) RAB OR (C) OMP		GROUNDWATER		WASTEWATER		SLUDGE		OTHER:		ACID/BASE		ICE / COOL		OTHER:		DATE		TIME	
1-15-08		1		C		X		X		X		X		X		X		X		9-15-08		11:25	
2-15-08		1		C		X		X		X		X		X		X		X		9-15-08		11:00	
3-15-08		1		C		X		X		X		X		X		X		X		9-15-08		11:05	
4-15-08		1		C		X		X		X		X		X		X		X		9-15-08		11:10	
5-15-08		1		C		X		X		X		X		X		X		X		9-15-08		11:15	
6-15-08		1		C		X		X		X		X		X		X		X		9-15-08		11:20	

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Relinquished By: <u>Eric Garrison</u>	Date: <u>9/15/08</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Phone #: <u>393-9174</u>
Relinquished By: <u>[Signature]</u>	Date: <u>9/15/08</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Fax #: <u>393-1471</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		REMARKS: <u>Results Barker@Ricesud.com</u> <u>Parvise@Ricesud.com</u>		

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

COPY

CK.	
MODEL	
NO.	

MODEL: PGM 7300	SERIAL NO: 590-000183
MODEL: PGM 7600	SERIAL NO: 110-013744
MODEL: PGM 7600	SERIAL NO: 110-12383
MODEL: PGM 7600	SERIAL NO: 110-023920
Model: Pgm 7300	Serial no: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 5-16-09
FILL DATE: 11-16-07	METER READING ACCURACY: 99.9 PPM

ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	C-6	C	6	215	36E

5 PT Bottom

4 WALL

SAMPLE ID	PID	SAMPLE ID	PID
5 PT Bottom Comp	357.2	4 WALL Comp	102.6
5 PT Bottom #1	131	N Wall	20.6
" " #2	1761	S Wall	204
" " #3	2048	E Wall	24.1
" " #4	1536	W Wall	127
" " #5	246.7		

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE: 

DATE: 9-15-08



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

ECF
09/25/08
HOBBS, NM

Receiving Date: 09/25/08
Reporting Date: 09/29/08
Project Number: NOT GIVEN
Project Name: EME JCT C-6
Project Location: EME JCT C-6

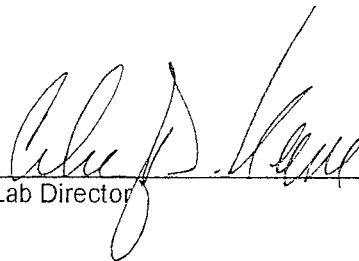
Sampling Date: 09/25/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/TR

COPY

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	CI* (mg/kg)
ANALYSIS DATE		09/26/08	09/26/08	09/26/08
H15980-1	BLENDED BACKFILL	104	1,050	320
Quality Control		563	496	500
True Value QC		500	500	500
% Recovery		113	99.2	100
Relative Percent Difference		17.8	14.9	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB

*Analysis performed on a 1:4 w:v aqueous extract.


Lab Director

09/29/08
Date

H15980 TCL RICE

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: ERIC GARRISON
122 W. TAYLOR
HOBBS, NM 88240

RECEIVED
SEP 26 2008
HOBBS, NM

Receiving Date: 09/25/08
Reporting Date: 09/26/08
Project Number: NOT GIVEN
Project Name: EME JCT C-6
Project Location: EME JCT C-6

Sampling Date: 09/25/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

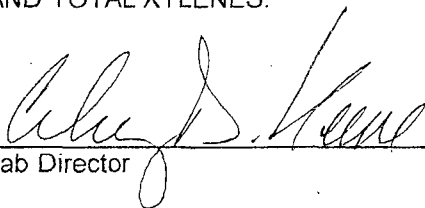
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LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
------------	-----------	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE	09/26/08	09/26/08	09/26/08	09/26/08
H15980-1 BLENDED BACKFILL	<0.050	<0.050	0.272	0.771
Quality Control	0.053	0.049	0.049	0.161
True Value QC	0.050	0.050	0.050	0.150
% Recovery	106	98.0	98.0	107
Relative Percent Difference	3.1	2.0	2.0	1.9

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Lab Director

09/29/08
Date

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

CK.	<input checked="" type="checkbox"/>
MODEL	
NO.	

MODEL: PGM 7300
MODEL: PGM 7600
MODEL: PGM 7600
MODEL: PGM 7600

SERIAL NO: 590-000183
SERIAL NO: 110-013744
SERIAL NO: 110-12383
SERIAL NO: 110-023920

COPY

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 05-16-08
FILL DATE: 11-16-07	METER READING ACCURACY: 99.9

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	C-6	C	6	21 S	36E

SAMPLE ID	PID	SAMPLE ID	PID
SPT comp on Backfill	141.9		

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE:



DATE:

10-1-08

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: EME

Site: Jct. C-6

Date: 9/15/2008

Sampler: Eric Garrison

Laboratory: Cardinal

Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
4-wall composite from 30x30x12	NORTH wall	20.6	<0.050	<0.050	0.212	0.481
	SOUTH wall	204.0				
	EAST wall	24.1				
	WEST wall	127.0				
			LAB COMPOSITE (mg/kg)			
			<0.050	<0.050	0.114	0.246

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

Revised Junction Box Upgrade Work Plan (July 16, 2003)

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: EME
Site: Jct. C-6

Date: 9/15/2008
Sampler: Eric Garrison

Laboratory: Cardinal Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)		
			Benzene	Toluene	Ethyl Benzene Total Xylenes
bottom composite at 12 ft BGS	1	131.0	0.498	1.19	7.99 21.4
	2	1761.0			
	3	2048.0			
	4	1536.0			
	5	46.1			
			LAB COMPOSITE (mg/kg)		
			0.178	0.971	7.37 19.5

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

Revised Junction Box Upgrade Work Plan (July 16, 2003)

CHLORIDE CONCENTRATION CURVE

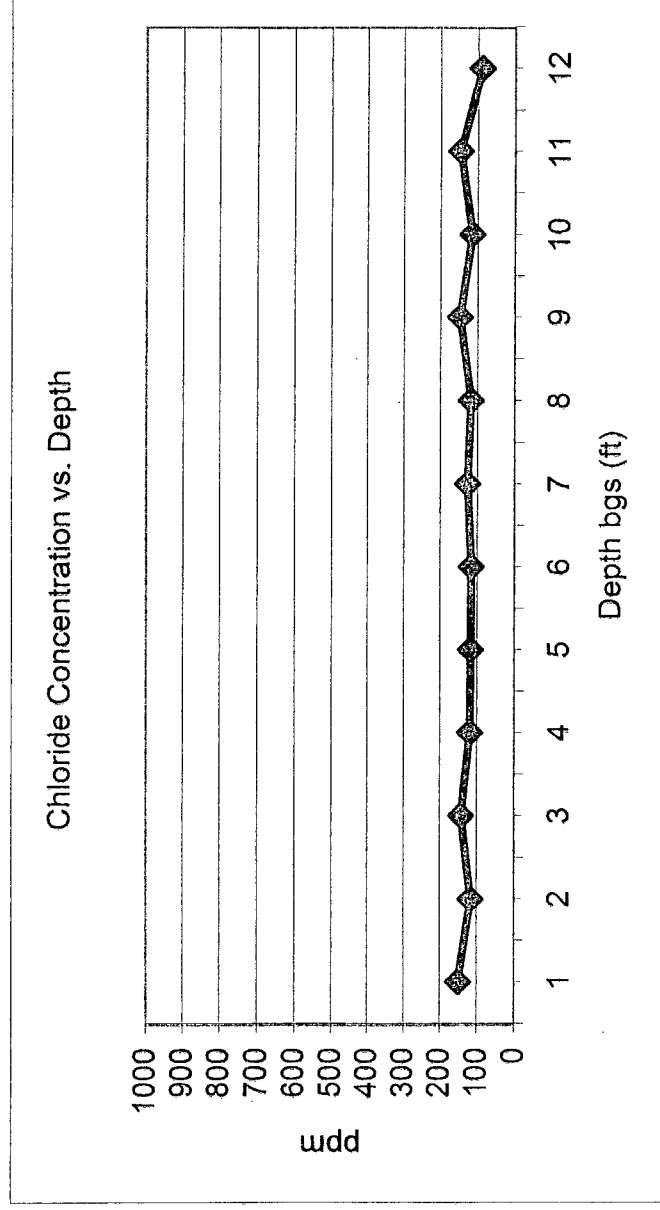
RICE Operating Company

EME Jct. C-6

Unit 'C', Sec. 6, T21S, R36E

Backhoe samples at 15 ft south of the junction (source)

Depth bgs (ft)	[Cl] ppm
1	150
2	116
3	142
4	119
5	117
6	115
7	126
8	117
9	147
10	114
11	146
12	88



Groundwater = 135 ft