

1R - 427 - 36

REPORTS

DATE:

9-30-2003

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	H-12	H	12	21S	35E	Lea	Length	Width	Depth
							No Box (eliminated)		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Merchant Livestock Co. OTHER _____

Depth to Groundwater 133 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 8/14/2003 Date Completed 8/26/2003 OCD Witness No

Soil Excavated 155 cubic yards Excavation Length 23 Width 14 Depth 13 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 8/19/2003 Sample Depth 13 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	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
SIDEWALLS	<30.0 *	<10.0	<10.0	704
BOTTOM	20.8	<10.0	<10.0	704
REMEDIED	29.5	<10.0	<10.0	416

* Each individual wall composite was tested with the PID.
None were over 30 ppm.

General Description of Remedial Action: Delineation of this site exhibited

chloride concentration declines vertically and laterally in relation to the original junction. There was no evidence of TPH impact. PID readings were taken regularly which consistently yielded minimal readouts. The excavated soil from the 23 x 14 x 13-ft-deep hole was blended and then backfilled and contoured to the surrounding surface. A new junction box will not be re-built over the location as it was re-plumbed straight through with a new poly pipeline. The disturbed surface will not be re-seeded due to the site's proximity to active oilfield facilities, structures, and a road (see photos). The site is expected to naturally re-vegetate at a normal rate.

cc: lab results, chloride graphs, PID field notes, photos

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
5 ft East	5	891
	6	1184
	7	1008
	8	896
	9	799
	10	464
	12	525
	13	540
bottom comp.	13	518
remed. comp.	n/a	534

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

DATE 9/30/2003 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Project Scientist

EME jct. H-12

August 2003



Jct. Box Site (after NORM removal)



Excavation



Excavation (looking North)



Backfilled

CHLORIDE CONCENTRATION CURVE

RICE Operating Company

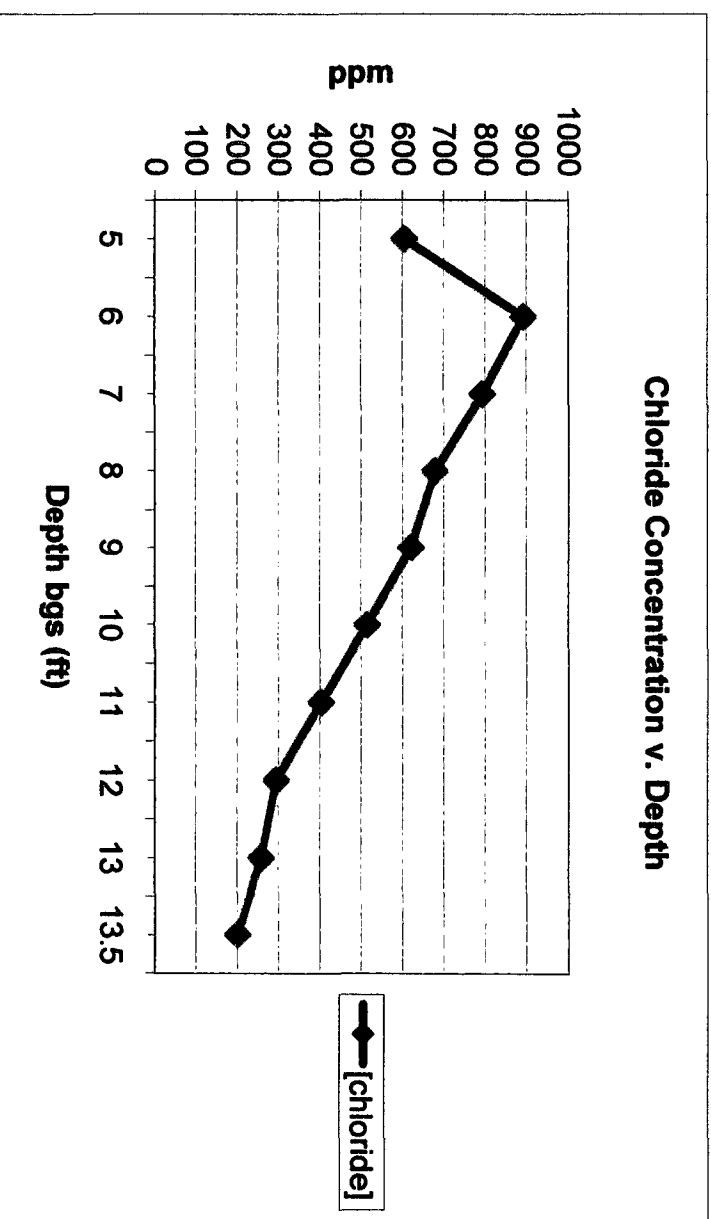
EME jct. H-12

T21S, R35E

Vertical at center of jct.

Depth bgs (ft)	[Cl-] ppm
5	605
6	893
7	794
8	679
9	621
10	515
11	403
12	294
13	259
13.5	201

Groundwater = 133 ft



CHLORIDE CONCENTRATION CURVE

RICE Operating Company

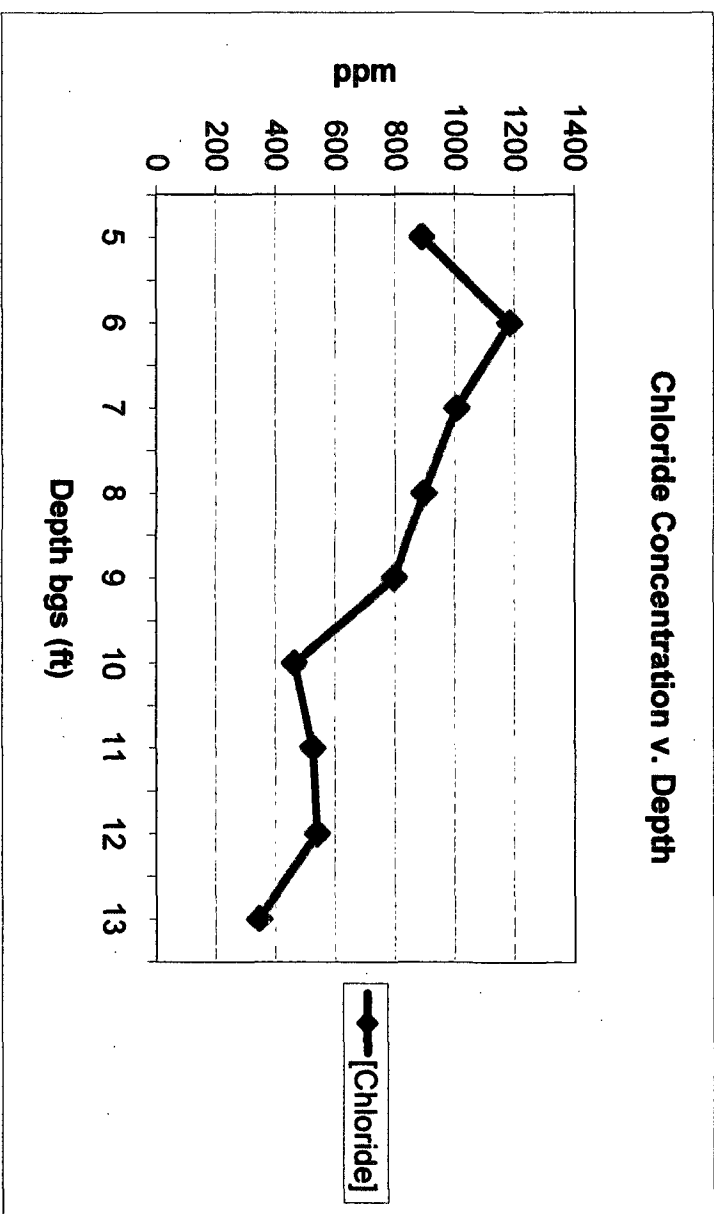
EME jet. H-12

T21S, R35E

5 ft east from center of jet.

Depth bgs (ft)	[Cl-] ppm
5	891
6	1184
7	1008
8	896
9	799
10	464
11	525
12	540
13	345

Groundwater = 133 ft



CHLORIDE CONCENTRATION CURVE

RICE Operating Company

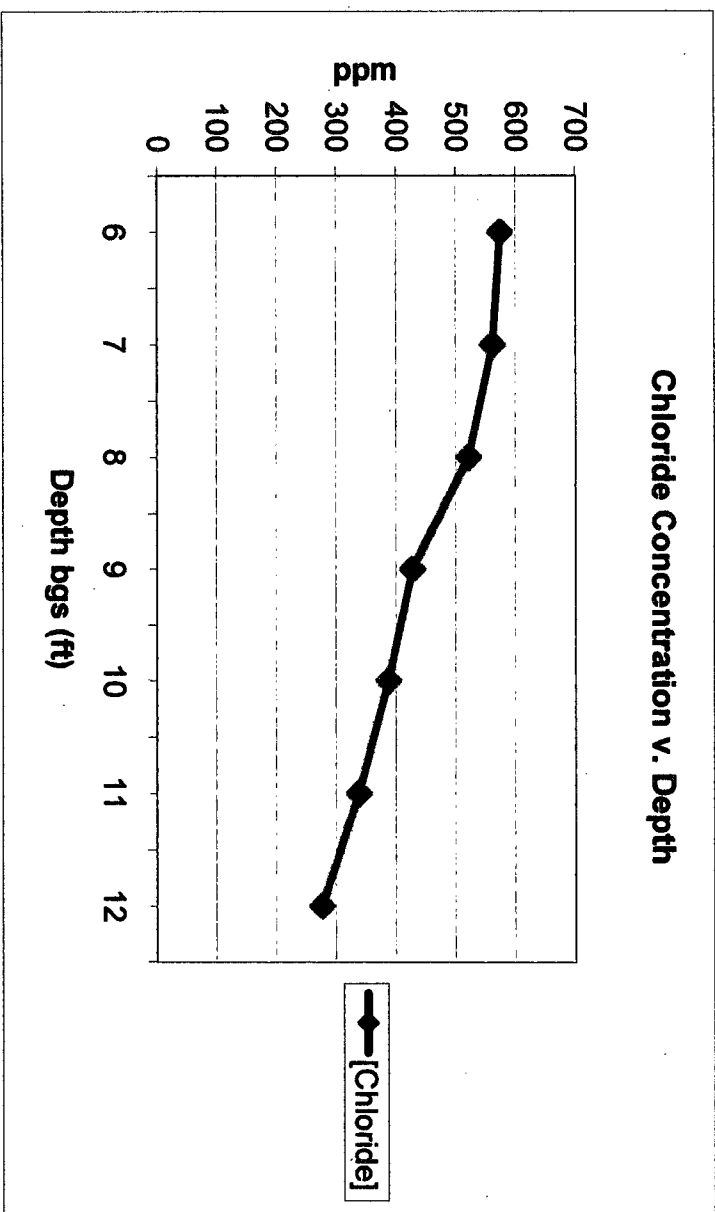
EME jct. H-12

T21S, R35E

10 ft east from center of jct.

Depth bgs (ft)	[Cl-] ppm
6	575
7	562
8	522
9	428
10	388
11	338
12	277

Groundwater = 133 ft



ETGI Gary Hall

Jet Box Final Report
ETGI Initial Report EME H-12
8-19-03 Bottom Composite & 4 sidewall composite

Bottom Composite 13'

ppm 518 704 LAB

TPH NO odor

PID 20.8

color light Brown Sand

N. Wall

ppm 666 672 LAB

TPH NO odor

PID 21.8

color cliche / Brown Sand

S. Wall

ppm 831 864 LAB

TPH NO odor

PID 22.3

color cliche / Brown Sand

E. Wall

ppm 194 208 LAB

TPH NO odor

PID 25.1

color cliche / Brown Sand

E. Wall

ppm 1180 1020 LAB

TPH NO odor

PID 25.5

color cliche / Brown Sand

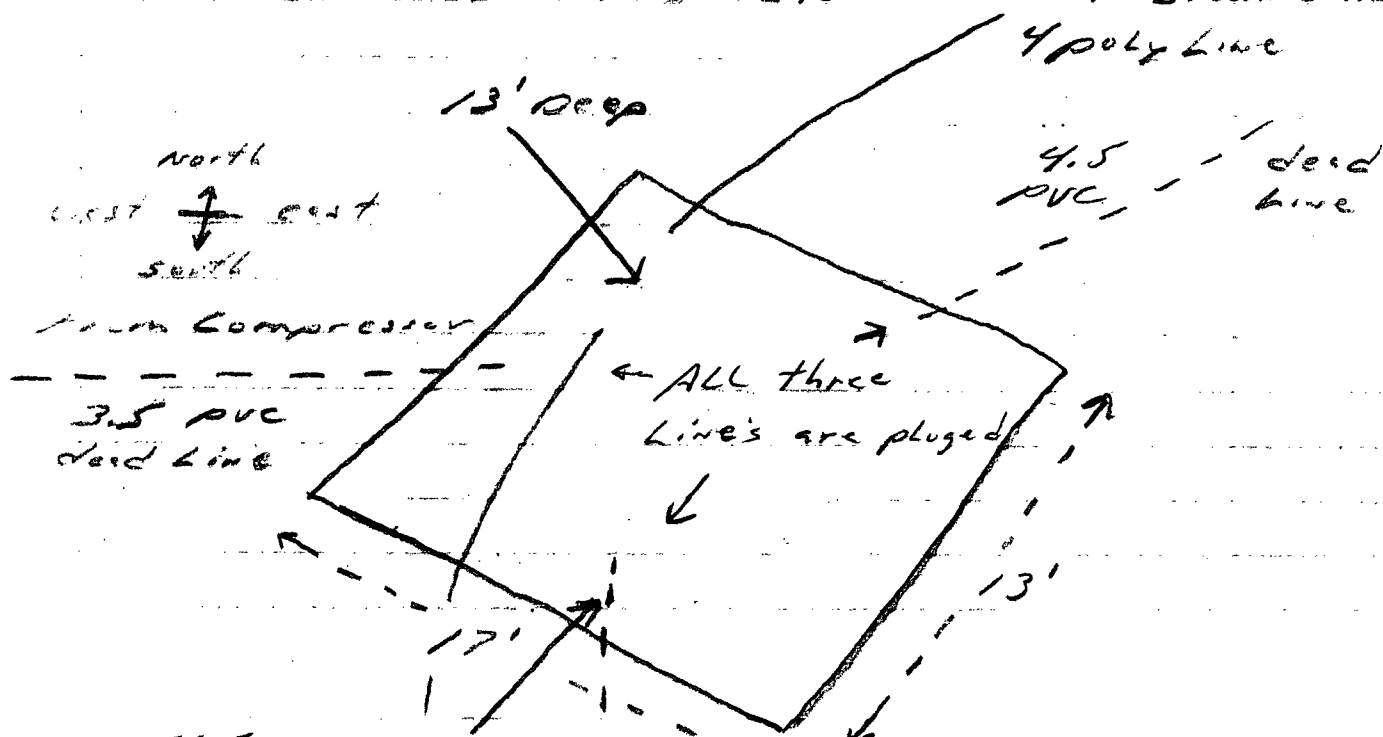
Still pile 5' point composite

ppm 534 416 LAB

TPH NO odor

PID 29.5

color cliche / Brown Sand





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

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

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: ROY R. RASCON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 08/19/03
Reporting Date: 08/21/03
Project Number: NOT GIVEN
Project Name: EME H-12
Project Location: LEA COOUNTY, NM

Sampling Date: 08/19/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	(mg/Kg)
ANALYSIS DATE		08/20/03	08/20/03	08/20/03
H7928-1	BOTTOM COMPOSITE	<10.0	<10.0	704
H7928-2	N. WALL COMPOSITE	<10.0	<10.0	672
H7928-3	S. WALL COMPOSITE	<10.0	<10.0	864
H7928-4	W. WALL COMPOSITE	<10.0	<10.0	208
H7928-5	E. WALL COMPOSITE	<10.0	<10.0	1020
H7928-6	STOCKPILE COMPOSITE	<10.0	<10.0	416
Quality Control		812	748	1050
True Value QC		800	800	1000
% Recovery		102	93.5	105
Relative Percent Difference		2.1	0.8	5.0

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

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

Chemist

Date

H7928.XLS

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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ANALYTICAL RESULTS FOR
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122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

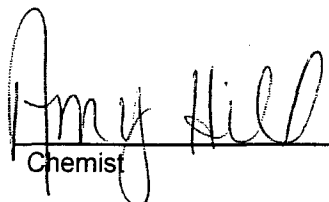
Receiving Date: 08/19/03
Reporting Date: 09/02/03
Project Number: NOT GIVEN
Project Name: EME H-12
Project Location: LEA COUNTY, NM

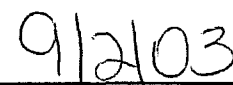
Analysis Date: 08/29/03
Sampling Date: 08/19/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H7928-1	COMP. N., S., E., & W. WALLS	704
Quality Control		1070
True Value QC		1000
% Recovery		107
Relative Percent Difference		1.9

METHOD: Standard Methods	4500-Cl ⁻ B
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Note: Analysis performed on a 1:4 w:v aqueous extract.


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. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

h7928