

1R - 427-284

REPORTS

DATE:

7-16-08

EME Jct N-34

1R427-284

RECEIVED
MAR 25 2004
Environmental Bureau
Oil Conservation Division

Disclosure

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Eunice Monument Eumont (EME)	Jct. N-34	N	34	19S	37E	Lea	moved 20 ft west		

LAND TYPE: BLM ___ STATE ___ FEE LANDOWNER Robert Dale Cameron OTHER _____

Depth to Groundwater 22 feet NMOCD SITE ASSESSMENT RANKING SCORE: 40*

Date Started 9/19/2007 Date Completed 10/2/2007 OCD Witness no

Soil Excavated 416.7 cubic yards Excavation Length 30 Width 25 Depth 15 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 9/26/2007 Sample Depth 15 ft

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

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	1.7	<10.0	<10.0	912
BOTTOM COMP.	7.2	<10.0	<10.0	432
BACKFILL	0.9	<10.0	<10.0	848

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	298
bottom comp.	15 ft	722
backfill comp.	n/a	669
vertical delineation trench 5 ft east of source	1'	174
	2'	109
	3'	152
	4'	118
	5'	196
	6'	375
	7'	1173
	8'	1592
	9'	1759
	10'	2834
	11'	3079
	12'	5613

General Description of Remedial Action: This junction box was addressed under the pipeline replacement/upgrade program. A new, water tight junction box was built 20 ft west of the former. After the box was removed an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x25x15-ft-deep hole. Chloride field tests were performed on each sample and concentration did not relent with depth. Organic vapors were measured using a PID, which yielded low concentrations. Composite samples were collected from the excavation floor and walls for laboratory analysis. The excavated soil was blended on site and returned to the excavation up to 5 ft below ground surface. A 5-ft-deep shelf was excavated 5 ft out from the north, south, and east walls and 3 ft out from the west to prepare the surface for a clay barrier. At 5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill was used to backfill the excavation to ground surface and contoured to the surrounding area. An identification plate was placed on the surface to mark the presence of the clay below. On 10/03/2007, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. NMOCD was notified of potential groundwater impact at this site on 7/16/2008.

*One domestic well within radius, north of this site.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, cross-section, lab results, PID screenings, chloride graph, clay test

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

REPORT

ASSEMBLED BY Katie Jones INITIAL KJ COMPANY RICE OPERATING COMPANY

SITE SUPERVISOR Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr.

DATE 7-16-08 TITLE PROJECT LEADER

*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

EME Jct. N-34

Unit N, Section 34, T19S, R37E



undisturbed junction box, facing west

8/3/2007



backfilling excavation site up to 5 ft BGS, facing west

9/27/2007



5 ft shelf being excavated, facing northeast

9/27/2007



clay barrier being compacted

9/28/2007

EME Jct. N-34

Unit N, Section 34, T19S, R37E



backfilling excavation site, facing northwest

10/02/2007



clay marker

10/04/2007



seeding backfilled site, facing north

10/03/2007

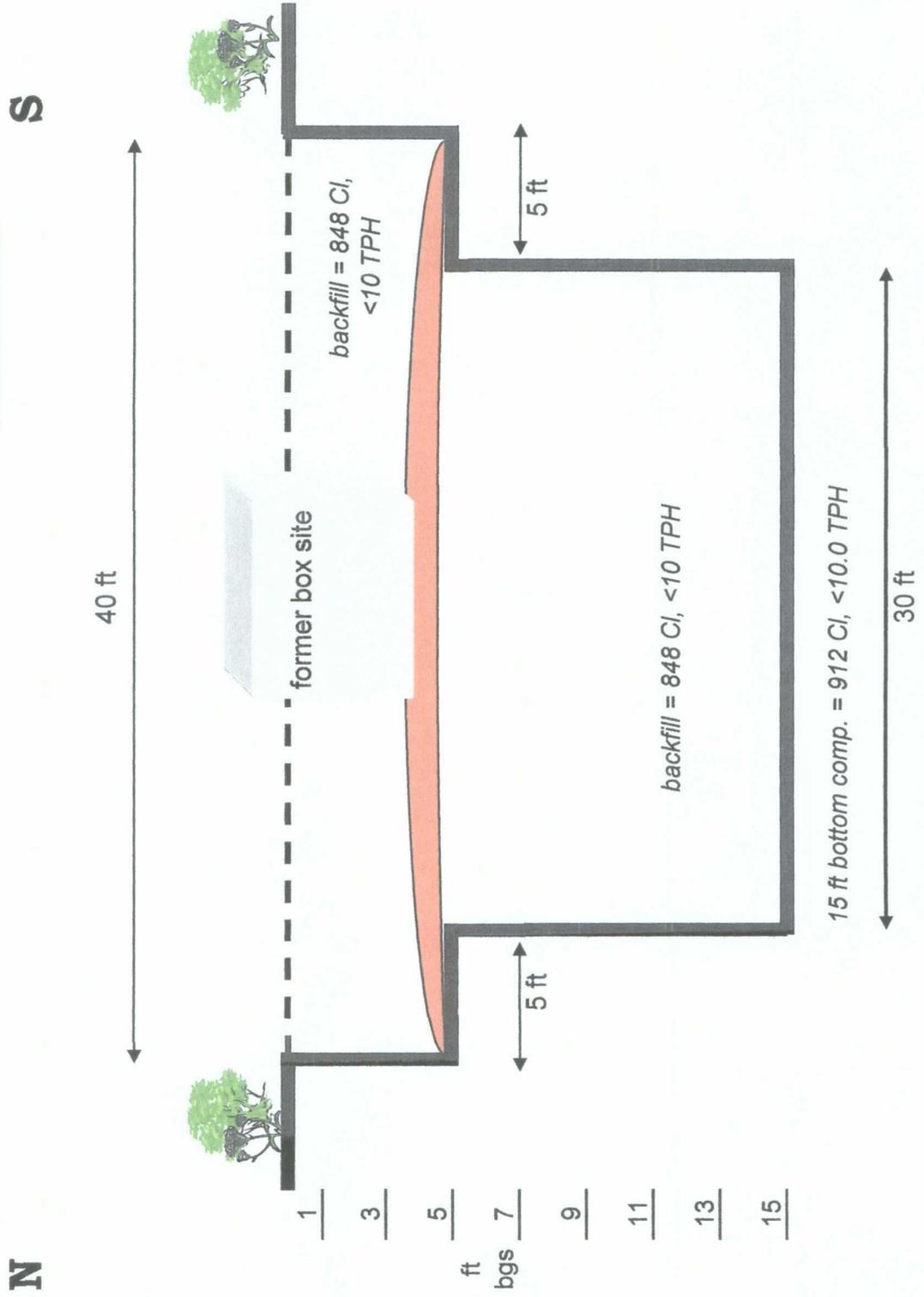
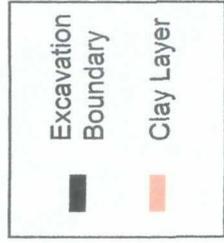


site complete with new, water tight box on left and clay marker on right

10/04/2007

EME Jct. N-34
 Unit N, Section 34, T19S, R37E

Excavation Cross-Section





ARDINAL LABORATORIES

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

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

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

OCT 02 2007

RICE OPERATING
HOBBS NM

Receiving Date: 09/26/07
Reporting Date: 09/28/07
Project Number: NOT GIVEN
Project Name: EME JCT. N-34
Project Location: EME JCT. N-34

Sampling Date: 09/26/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: CK/HM

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₂) (mg/Kg)	DRO (>C ₁₂ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		09/27/07	09/27/07	09/27/07
H13386-1	5PT. BTTM. COMP. 15'	<10.0	<10.0	912
H13386-2	4 WALL COMP. 30'x25'	<10.0	<10.0	432
H13386-3	BLENDED BACKFILL	<10.0	<10.0	848
Quality Control		397	525	500
True Value QC		500	500	500
% Recovery		79.4	105	100
Relative Percent Difference		1.7	3.6	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Std. Methods 4500-Cl*B
*Analyses performed on 1:4 w:v aqueous extracts.

Bruce Baker
833-9613

Cheryl Skene
Chemist

09/28/07
Date

H13386 Rice

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 analysis. 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.



CARDINAL LABORATORIES, INC.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: **EMERSON** P.O. #: **RI1170** ANALYSIS REQUEST

Project Manager: **Bob Fawcett** Company: _____

Address: **1000 W. 100th St. Moorhead, MN 56501** Altitude: _____

City: **MOORHEAD** State: **MINN.** ZIP: **56501**

Phone #: **218-835-1194** FAX #: **218-835-1411** Address: _____

Project #: _____ City: _____ State: _____ ZIP: _____

Project Name: **EME Jet N-34** Phone #: _____

Project Location: **EME Jet. N-34** FAX #: _____

Sampler Name: **Bruce Baker** Matrix: _____

Lab. ID: _____ Sample ID: _____

Lab. ID	Sample ID	DEPTH OR (COMP.)	# CONTAINERS	MATRIX						ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:						
H13386-1	5pt Btm. Comp. 15'	C	1			<input checked="" type="checkbox"/>						9-26-07	12:40pm	CI-	
-2	4 Wall Comp. 30' x 25'	C	1			<input checked="" type="checkbox"/>						9-26-07	1:25pm	TPH 8015 m	
-3	Blended Backfill	C	1			<input checked="" type="checkbox"/>						9-26-07	2:25pm	TPH 8015 m	

Notes: 1. This form is to be filled out by the sampler and returned to the client for the amount paid by the client for the analysis. 2. This form is to be filled out by the client and returned to the client for the amount paid by the client for the analysis. 3. This form is to be filled out by the client and returned to the client for the amount paid by the client for the analysis.

Sampler: **Bruce Baker** Date: **9-26-07** Received By: **Bruce Baker** Time: **4:49pm**

Delivered By: (Circle One) **Sample** UPS - Bus - Other: _____

Sample Condition: Temp. Initial? Yes No

Checked By: **AB**

Phone Result: Yes No

Fax Result: Yes No

REMARKS: **e-mail baker@rice500.com**

Ace. ipurves@rice500.com

Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

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.	<input type="checkbox"/>	* MODEL: PGM 761S	SERIAL NO: 104412
MODEL	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-013744
NO.	<input checked="" type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 410-12383 110-012383
	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-012920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3264	EXPIRATION DATE: 1/18/09
FILL DATE: 7/18/07	METER READING ACCURACY: 99.8

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	N-34	N	34	19S	37E

SAMPLE ID	PID	SAMPLE ID	PID
5pt. Bttm Comp @ 15'	7.2		
4 Wall Comp. 25'x30'	1.7		
Blended BACKfill	0.9		

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

SIGNATURE: *Bruce Baker*

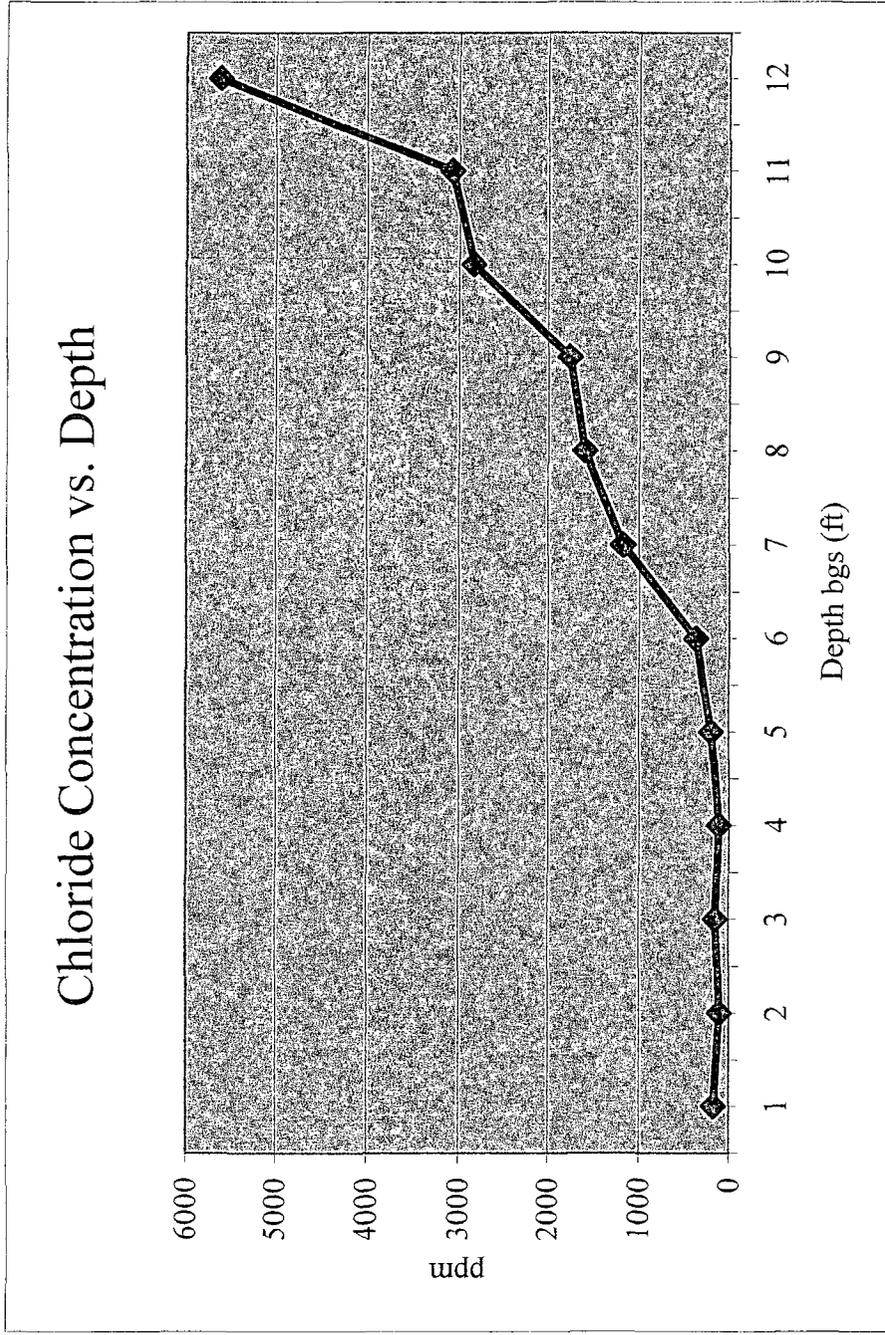
DATE: 9-26-07

EME jct. N-34

unit 'N', Sec. 34, T19S, R37E

backhoe samples 5 ft EAST
of former junction

Depth bgs (ft)	[Cl] ppm
1	174
2	109
3	152
4	118
5	196
6	375
7	1173
8	1592
9	1759
10	2834
11	3079
12	5613



Groundwater = 22 ft



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.

1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating
Attn: Carolyn Haynes
122 W. Taylor
Hobbs, NM 88240

Material: Red Clay (Wallach)

Test Method: ASTM: D 2922

Project: JCT. EME N-34
Project No. 2007.1007

COPY

Date of Test: September 28, 2007

Depth: See Below

Depth of Probe: 12"

Test No.	Location	Dry Density		Depth
		% Max	% Moisture	
SG 1	Pit, 10' E. and 8' S. of NW Corner	98.2	17.6	Finished Subgrade
SG 2	Pit, 15' E. and 10' N. of SW Corner	91.1	16.0	Finished Subgrade

NOV 15 2007

Control Density: 104.4
ASTM: D 698

Optimum Moisture: 20.3%

Required Compaction: 90%

Densometer ID: 815
PETTIGREW & ASSOCIATES

Lab No.: 07 9215-9218

Copies To: Rice

BY: Eric M Hart

BY: Debra P. L P.E.



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
 1110 N. GRIMES
 HOBBS, NM 88240
 (505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
 WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating
 Attn: Carolyn Haynes
 122 W. Taylor
 Hobbs, NM 88240

Material: Red Clay (Wallach)

Test Method: ASTM: D 2922

Project: JCT EME N-34
 Project No. 2007.1007

Date of Test: October 2, 2007

COPY

Depth: See Below

Depth of Probe: 12"

Test No.	Location	Dry Density % Max	% Moisture	Depth
RTSG 1	Pit, 10' E. and 8' S. of NW Corner	94.3	13.5	Finished Subgrade

NOV 15 2007

Control Density: 104.4
 ASTM: D 698

Optimum Moisture: 20.3%

Required Compaction: 90%

Densometer ID: 5357

PETTIGREW & ASSOCIATES

Lab No.: 07 9219-9220

Copies To: Rice

BY: Eric M. Hurd

BY: Debra P. Hicks P.E.