

1R - 427-357

REPORTS

DATE:

3-29-11

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1R427-35

**EME C-10-1 EOL**

**2010**

**RECEIVED**

**APR - 1 2011**

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

**CLOSURE**

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Eunice Monument Eumont	C-10-1 EOL	C	10	21S	36E	Lea	Eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Millard Deck OTHER \_\_\_\_\_

Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 9/14/2010 Date Completed 10/15/2010 OCD Witness no

Soil Excavated 44.4 cubic yards Excavation Length 10 Width 10 Depth 12 feet

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

**FINAL ANALYTICAL RESULTS:** Sample Date 9/29/2010 Sample Depth 12 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.	2.4	<10.0	<10.0	448
BOTTOM COMP.	0.6	<10.0	<10.0	272
BACKFILL COMP.	1.8	<10.0	<10.0	32

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	403
bottom comp.	12'	207
backfill comp.	n/a	200
vertical delineation trench 5 ft. north of junction (source)	2'	117
	4'	511
	6'	533
	8'	502
	10'	490
	12'	294

**General Description of Remedial Action:** This junction and line were eliminated

during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 10X10X12-ft-deep excavation. Chloride field test performed on each sample yielded concentrations that relented with depth.

Organic vapors were measured using a PID. The excavated soil was blended on site and representative composite samples were collected from the blended backfill, the bottom of the excavation, and the excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH. The blended backfill was returned to the excavation to 2 ft. below ground surface. The remaining excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. On 10/15/2010, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

enclosures: photos, lab results, PID (field) screenings, chloride curve

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

SITE SUPERVISOR Dak Harris SIGNATURE *Dak Harris* COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Zach Conder INITIAL *ZC*

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 3-29-11

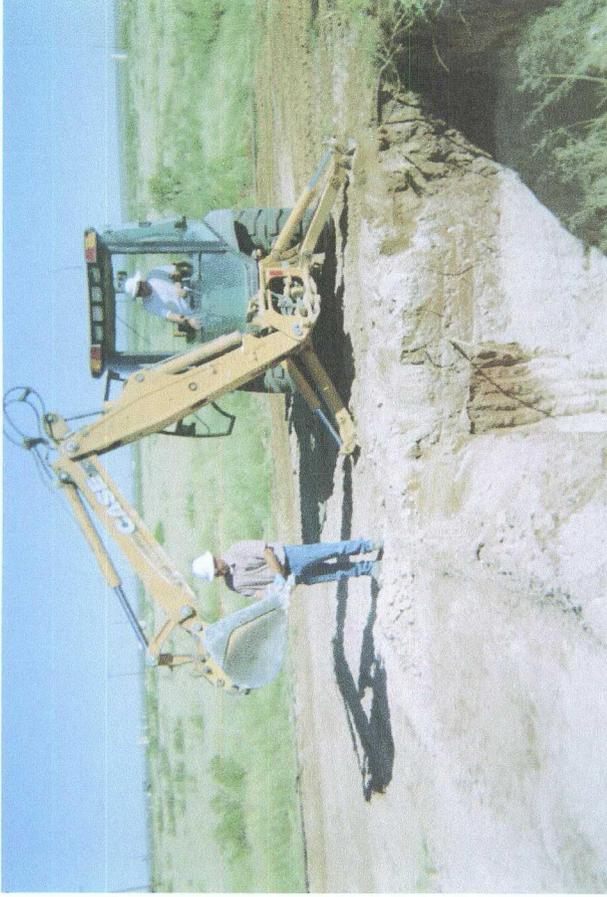
# EME C-10-1 EOL

Unit C, Section 10, T21S, R36E



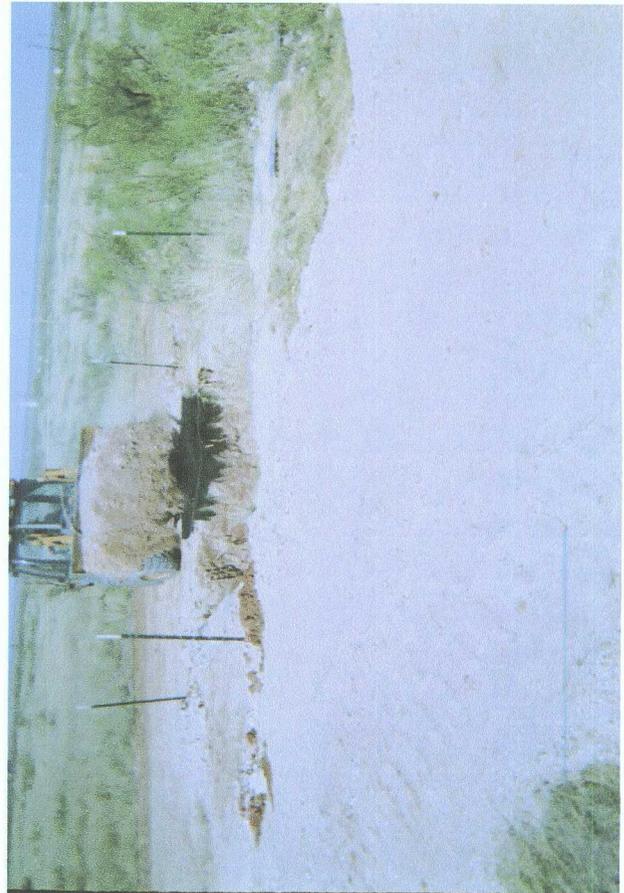
Site prior to excavation

9/14/2010



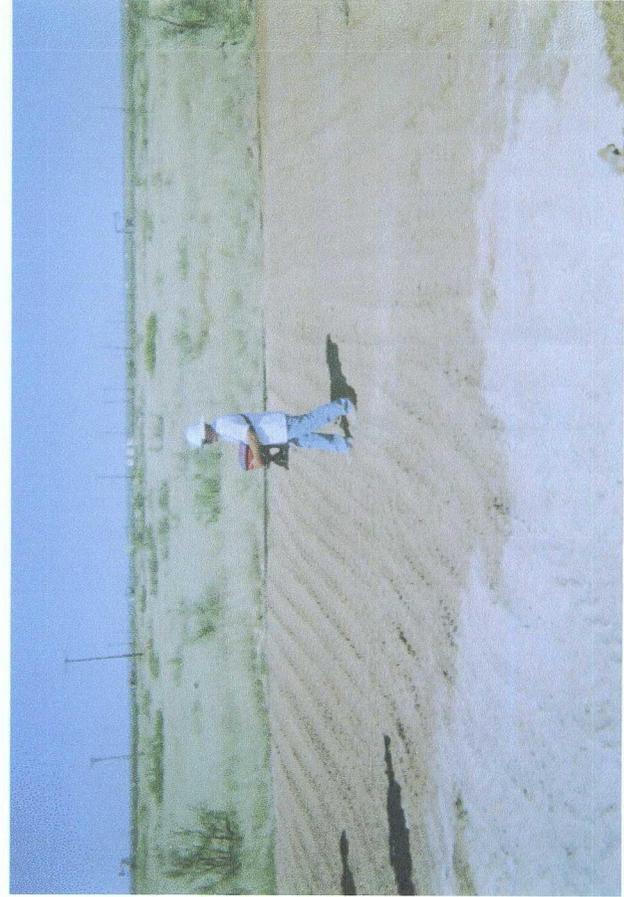
Collecting Sample

9/29/2010



Backfilling site

10/27/2010



Seeding site

10/27/2010

**Analytical Results For:**

Rice Operating Company  
 Bruce Baker  
 112 W. Taylor  
 Hobbs NM, 88240  
 Fax To: (575) 397-1471

Received:	09/29/2010	Sampling Date:	09/29/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	EME C-10-1 EOL (21/36)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 5 PT. BOTTOM @ 12' (H020951-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>272</b>	16.0	09/30/2010	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49		
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1		

Surrogate: 1-Chlorooctane 87.3 % 70-130  
 Surrogate: 1-Chlorooctadecane 86.7 % 70-130

**Sample ID: 4-WALL COMPOSITE @ 10 X 10 (H020951-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>448</b>	16.0	09/30/2010	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49		
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1		

Surrogate: 1-Chlorooctane 92.5 % 70-130  
 Surrogate: 1-Chlorooctadecane 92.3 % 70-130

COPY



**Analytical Results For:**

Rice Operating Company  
 Bruce Baker  
 112 W. Taylor  
 Hobbs NM, 88240  
 Fax To: (575) 397-1471

Received:	09/29/2010	Sampling Date:	09/29/2010
Reported:	10/05/2010	Sampling Type:	Soil
Project Name:	EME C-10-1 EOL (21/36)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BLENDED BACKFILL (H020951-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	09/30/2010	ND	400	100	400	7.69	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2010	ND	186	93.1	200	6.49	
DRO >C10-C28	<10.0	10.0	10/01/2010	ND	199	99.6	200	15.1	

Surrogate: 1-Chlorooctane                      89.6 %                      70-130  
 Surrogate: 1-Chlorooctadecane                      91.1 %                      70-130

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**ARDINAL 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

**Company Name:** Nice Operating Company  
**Project Manager:** Bruce Baker  
**Address:** 122 W. Faylor  
**City:** 58665 **State:** NM **Zip:** 88240  
**Phone #:** 575-393-9174 **Fax #:** 575-393-1471  
**Project #:** \_\_\_\_\_ **Project Owner:** \_\_\_\_\_  
**Project Name:** EMERSON LOCK (2130)  
**Project Location:** \_\_\_\_\_  
**Sampler Name:** Robert Evans

Lab I.D.	Sample I.D.	(G)RAB OR (C)MP	# CONTAINERS	MATRIX				PRESERV.		DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER		
40031	SPR Return @ 121	C 1	1							4-29-06	10:15
	4 7 1/2 mile E of Highway 121	C 1	1							4-29-06	9:50
	3 Broadwell Back Well	C 1	1							4-29-06	7:33

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**Relinquished by:** Robert **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_  
**Received By:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_  
**Delivered By:** (Circle One) UPS **Sampler:** UPS - Bus - Other: \_\_\_\_\_  
**Checked By:** \_\_\_\_\_ **Initials:** \_\_\_\_\_

**REMARKS:** E-Mail Results To: E-Results@Riceland.com  
Baker  
Logan

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

# 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	SERIAL NO: 590-000508
MODEL: PGM 7300	SERIAL NO: 590-000504
MODEL: PGM 7320	SERIAL NO: 592-903318
MODEL: PGM 7300	SERIAL NO: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: <u>925621</u>	EXPIRATION DATE: <u>9-27-12</u>
METER READING ACCURACY: <u>99.9</u>	

ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
<u>EME</u>	<u>C-10-1EOL</u>	<u>C</u>	<u>10</u>	<u>21</u>	<u>36</u>

SAMPLE ID	PID	SAMPLE ID	PID
<u>Bottom 5 ft. Comp @ 12'</u>	<u>0.6</u>		
<u>Blended backfill</u>	<u>1.8</u>		
<u>4-Wall Composite</u>	<u>0.4</u>		

COPY

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

SIGNATURE: Dan Harris

DATE: 9-29-10

CHLORIDE CONCENTRATION CURVE

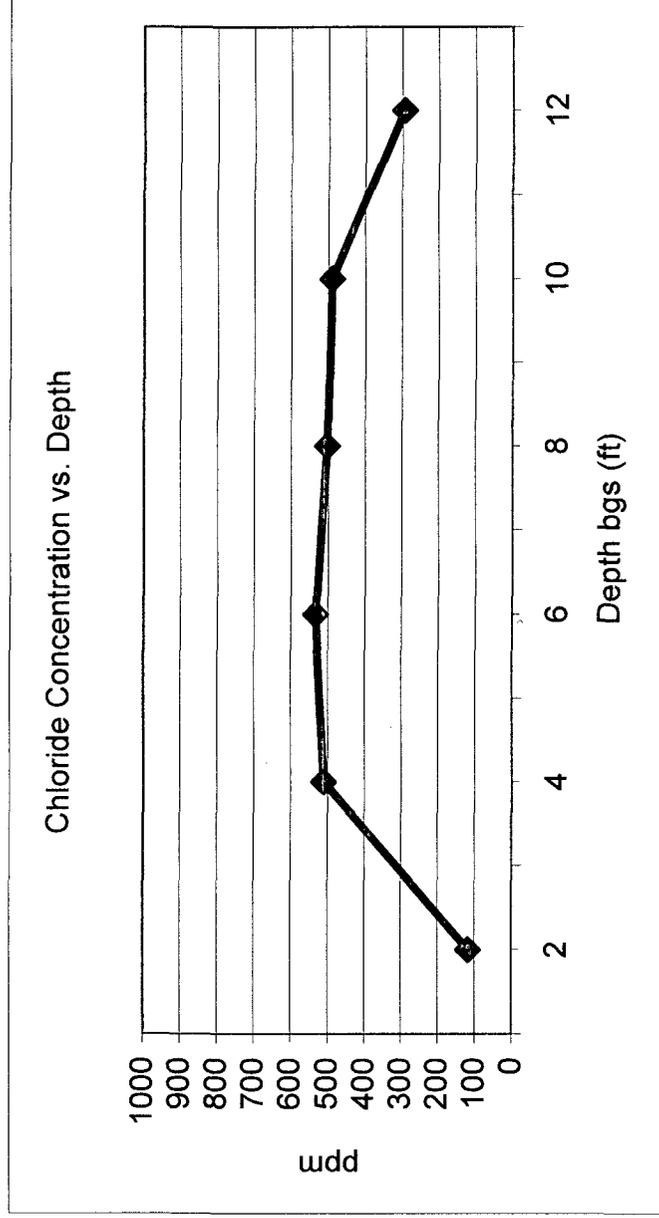
RICE Operating Company

**EME C-10-1 EOL**

Unit 'C', Sec. 10, T21S, R36E

Backhoe samples 5 ft. north of the junction (source)

Depth bgs (ft)	[Cl] ppm
2	117
4	511
6	533
8	502
10	490
12	294



Groundwater = 200 ft.