

1R - 427-337

REPORTS

DATE:

3-17-11

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1R427-337

EME Jct. C-10

2010

RECEIVED

APR - 1 2011

Oil Conservation Division  
1220 S. St. Francis St.  
Santa Fe, NM 87502

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 (EME)	Jct C-10	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: 20\*

Date Started 9/13/2010 Date Completed 11/4/2010 OCD Witness no

Soil Excavated 266.7 cubic yards Excavation Length 30 Width 20 Depth 12 feet

Soil Disposed 324 cubic yards Offsite Facility Sundance Services Location Eunice, NM

**FINAL ANALYTICAL RESULTS:** Sample Date 10/6/2010 Sample Depth 12'

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	Chlorides mg/kg
4-WALL COMP.	32.1	<10.0	<10.0	1,200
BOTTOM COMP.	34.9	<10.0	<10.0	400
BACKFILL COMP.	3.1	<10.0	<10.0	1,310

CHLORIDE FIELD TESTS		
LOCATION	DEPTH	mg/kg
4-wall comp.	N/A	794
bottom comp.	12'	903
backfill comp.	N/A	772
background	6"	110
vertical delineation trench 15 ft. south of former junction (source)	2'	604
	4'	677
	6'	497
	8'	423
	10'	310
	12'	238

**General Description of Remedial Action:** This junction and line were eliminated during the pipeline replacement/upgrade program. After the junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals creating a 30X20X12-ft. deep excavation. Chloride field test performed on each sample yielded chloride concentrations that did generally relent with depth. The excavated soil was blended on site and representative samples were collected from the blended backfill, the bottom of the excavation, and the excavation walls. The representative samples were taken to a commercial laboratory for analysis of chloride and TPH. The entire blended backfill was hauled to an NMOCD approved facility. At 12 ft. below ground surface (BGS) a 20 ml plastic liner was installed with a six inch pad of blow sand below and above liner. The remaining excavation was backfill with clean imported soil to ground surface and contoured to the surrounding area. On 11/04/2010, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

\* housing and windmill approximately 1,258 ft. west

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

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

SITE SUPERVISOR Robert Egans SIGNATURE *Robert Egans* COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 3-17-11

# EME JCT. C-10

Unit C, Section 10, T21S, R36E



Site Prior to delineation

9/13/2010



Installing 6" pad below liner

11/02/2010



Plastic liner installed

11/02/2010



Seeding excavation

11/04/2010

**Analytical Results For:**

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

Received:	10/06/2010	Sampling Date:	10/06/2010
Reported:	10/14/2010	Sampling Type:	Soil
Project Name:	EME JCT C-10 (21/36)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: 5 PT. BOTTOM COMP @12' (H020999-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>400</b>	16.0	10/08/2010	ND	432	108	400	3.77		
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	10/14/2010	ND	199	99.4	200	2.11		
DRO >C10-C28	<10.0	10.0	10/14/2010	ND	211	105	200	9.38		

Surrogate: 1-Chlorooctane 115 % 70-130  
 Surrogate: 1-Chlorooctadecane 134 % 70-130

**Sample ID: 4 WALL COMP @ 20' X 30' (H020999-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1200</b>	16.0	10/08/2010	ND	432	108	400	3.77		
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	10/14/2010	ND	199	99.4	200	2.11		
DRO >C10-C28	<10.0	10.0	10/14/2010	ND	211	105	200	9.38		

Surrogate: 1-Chlorooctane 107 % 70-130  
 Surrogate: 1-Chlorooctadecane 123 % 70-130

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/06/2010	Sampling Date:	10/06/2010
Reported:	10/14/2010	Sampling Type:	Soil
Project Name:	EME JCT C-10 (21/36)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: BLENDED BACKFILL (H020999-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	10/08/2010	ND	432	108	400	3.77		
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	10/14/2010	ND	199	99.4	200	2.11		
DRO >C10-C28	<10.0	10.0	10/14/2010	ND	211	105	200	9.38		

Surrogate: 1-Chlorooctane      116 %      70-130  
 Surrogate: 1-Chlorooctadecane      131 %      70-130

COPY



**ARDINAL LABORATORIES**

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

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

Company Name: *Nick Operative Company*

Project Manager: *Bruce Baker*

Address: *122 W. Taylor*

City: *18265* State: *NM* Zip: *88240*

Phone #: *575-393-9174* Fax #: *575-397-1471*

Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Location: *Elle CTC (21-36)*

Sampler Name: *Dick Harris*

FOR LAB USE ONLY

P.O. #: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Matrix: \_\_\_\_\_

Preserv: \_\_\_\_\_

Sampling: \_\_\_\_\_

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER		
<i>1226981</i>	<i>5 pt 4.4 m sample</i>	<i>C</i>	<i>1</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>10/18</i>	<i>10:45</i>	
<i>2</i>	<i>4 ml (cont. 2000)</i>	<i>C</i>	<i>1</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>10/18</i>	<i>10:45</i>	
<i>3</i>	<i>Shaded Rockfill</i>	<i>C</i>	<i>1</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>10/18</i>	<i>10:45</i>	

*TPH 8015 M*  
*CL*

**COPY**

**NOTE:** Use this and Damages. Containers for this and other products provided for by this form are to be used for the analysis of the sample. The sample must be analyzed within 30 days after completion of the analysis. The sample must be analyzed within 30 days after completion of the analysis. The sample must be analyzed within 30 days after completion of the analysis. The sample must be analyzed within 30 days after completion of the analysis.

Refrigerated By: \_\_\_\_\_

Time: \_\_\_\_\_

Received By: \_\_\_\_\_

Time: \_\_\_\_\_

Checked By: \_\_\_\_\_

Time: \_\_\_\_\_

Sample - UPS - Bus - Other: \_\_\_\_\_

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

*Handwritten signature*

# RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240  
 PHONE: (575) 393-9174 FAX: (575) 397-1471  
 PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

<input checked="" type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Model: PGM 7300    Serial No: 590-000183  
 Model: PGM 7300    Serial No: 590-000508  
 Model: PGM 7300    Serial No: 590-000504

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Model: PGM 7600    Serial No: 110-023920  
 Model: PGM 7600    Serial No: 110-013744  
 Model: PGM 7600    Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: <u>925621</u>	EXPIRATION DATE: <u>9-27-2012</u>
FILL DATE:	METER READING ACCURACY: <u>100</u>

ACCURACY: +/- 2%

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

SAMPLE ID	PID	SAMPLE ID	PID
<u>5 pT Bottom Comp @ 12'</u>	<u>34.9</u>		
<u>4 Wall Composite</u>	<u>32.1</u>		
<u>Blended Back Fill</u>	<u>3.1</u>		

COPY

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

SIGNATURE: *Robert [unclear]*

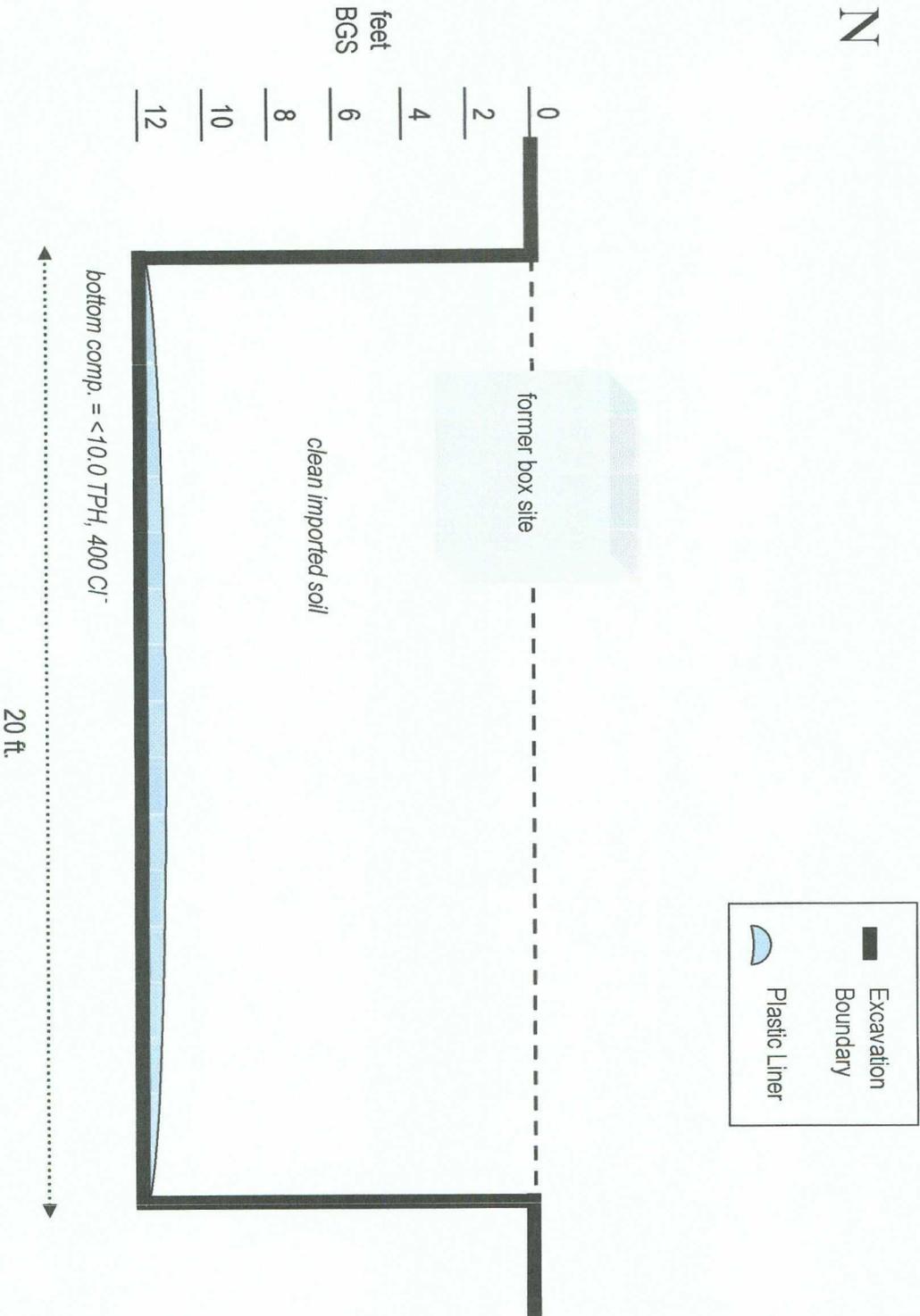
DATE: 9-24-2010

EME Jct. C-10  
Unit 'C', Sec. 10, T21S, R36E

### Excavation Cross-Section

N

S



# CHLORIDE CONCENTRATION CURVE

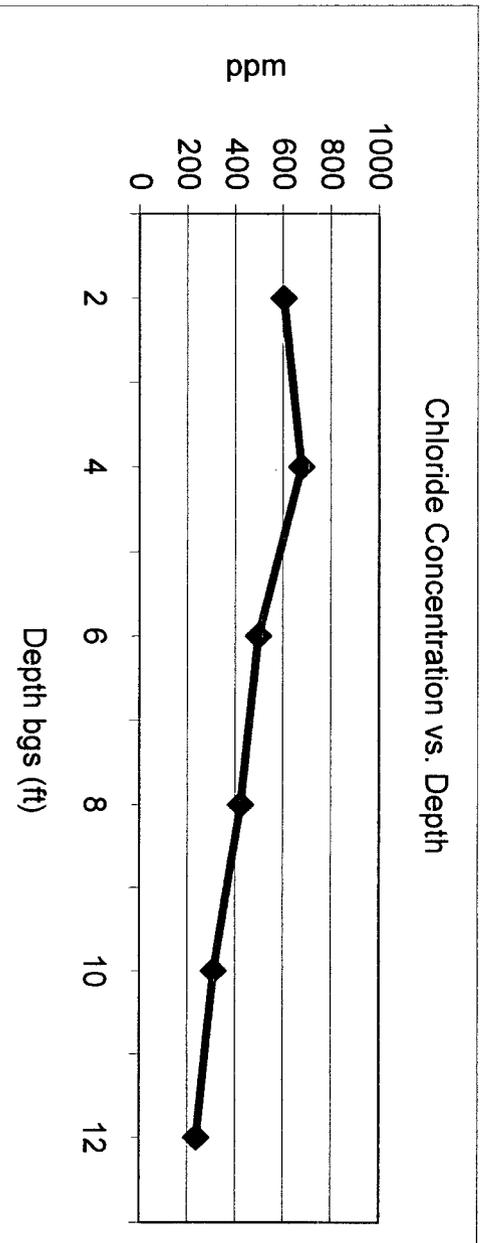
RICE Operating Company

## EME Jct. C-10

Unit C, Sec. 10 T21S, R36E

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

Depth bgs (ft)	[Cl] ppm
2	604
4	677
6	497
8	423
10	310
12	238



Groundwater = 200 ft.