

1R - 427-316

REPORTS

DATE:

3-25-10

EMIE Jct N-8-1

26002

1R427-316

DISCLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE REPORT**

RECEIVED

ADD - 6 2010

Environmental Bureau
Soil Science Division

BOX LOCATION							BOX DIMENSIONS - FEET		
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	Length	Width	Depth
Eunice Monument Eumont (EME)	Jct. N-8-1	N	8	20S	37E	Lea	moved 30 ft. west		

LAND TYPE: BLM STATE FEE LANDOWNER Jimmie T. Cooper et ux Betty B OTHER

Depth to Groundwater 30 feet NMOC SITE ASSESSMENT RANKING SCORE: 20

Date Started 9/2/2009 Date Completed 11/12/2009 OCD Witness no

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

Soil Disposed 144 cubic yards Offsite Facility C and C Landfarm Location Monument, NM

FINAL ANALYTICAL RESULTS: Sample Date 10/06/09, 11/05/09, 11/12/09 Sample Depth 12 ft., 18 ft., 24 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 NMOC 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.	PID = 72 (field)				<10.0	489	256
BOTTOM COMP.	PID = 56 (field)				<10.0	349	208
BLENDED BACKFILL COMP.	<0.050	<0.050	0.095	<0.300	<10	1300	176
BLENDED BACKFILL COMP.	PID = N/A				<10	232	144
SOIL BORE #1 @ 18'	<0.050	0.432	1.06	7.43	751	2970	16
SOIL BORE #1 @ 24'	<0.050	0.541	1.98	6.08	787	2150	128

General Description of Remedial Action: This junction box was addressed as part of the pipeline replacement/upgrade program. After the former junction box was moved

an investigation was conducted using a backhoe to excavate the site to dimensions of 30x20x12-ft deep. Representative composite samples were collected and sent to a commercial laboratory for analysis of chloride, TPH, and BTEX. The laboratory confirmed low concentrations of chloride but slightly elevated concentrations of TPH. The excavated soil was blended on site with clean, imported soil. The blended backfill was then returned to the excavation to ground surface and contoured to the surrounding area. To further investigate depth of TPH presence, a soil boring was initiated on 11/12/09 at the former junction box location (25 feet south of source). The boring was advanced to a depth of 24 ft BGS, while soil samples were collected every 2 ft and field tested for chlorides and organic

vapors. The 18 ft. and 24 ft. samples were analyzed by a commercial laboratory which confirmed low chloride and slightly elevated level of organics. On 12/18/2009, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. On 2/25/2010 NMOC was notified of potential groundwater impact.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	336
bottom comp.	12'	56
SOIL BORING at the former junction (11/12/09)	14'	371
	16'	375
	18'	391
	20'	382
	22'	414
	24'	471

Additional Evaluation High Priority

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

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

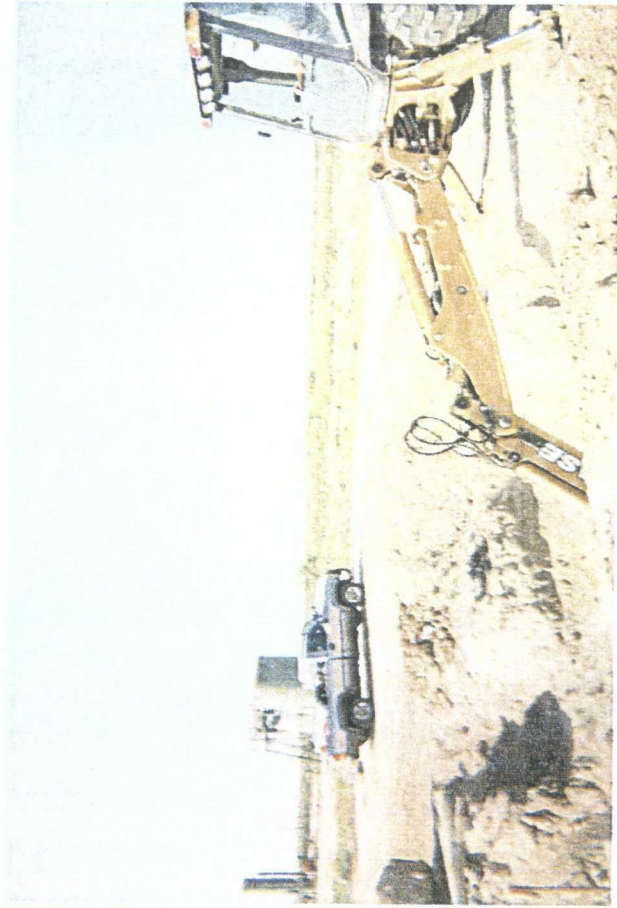
SITE SUPERVISOR Jordan Woodfin SIGNATURE Jordan Woodfin COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBAB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-25-10

EME Junction N-8-1

Unit N, Section 8, T20S, R37E



Delineation trench at former junction site

9/02/2009



Sampling site

9/02/2009



Backfilling site

11/06/2009



Soil bore # 1

11/12/2009

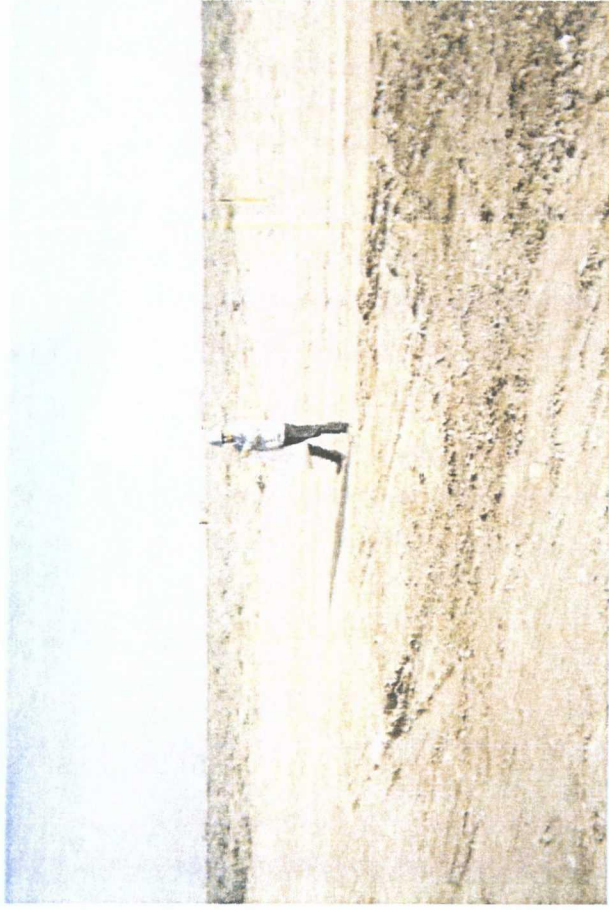
EME Junction N-8-1

Unit N, Section 8, T20S, R37E



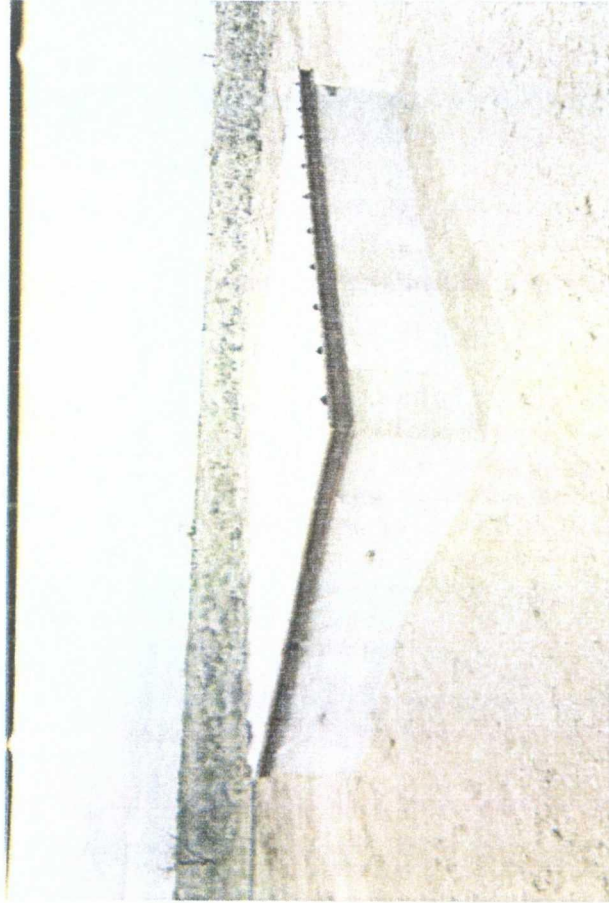
Plugging entire soil bore with bentonite

11/12/2009



Seeding site

12/18/2009

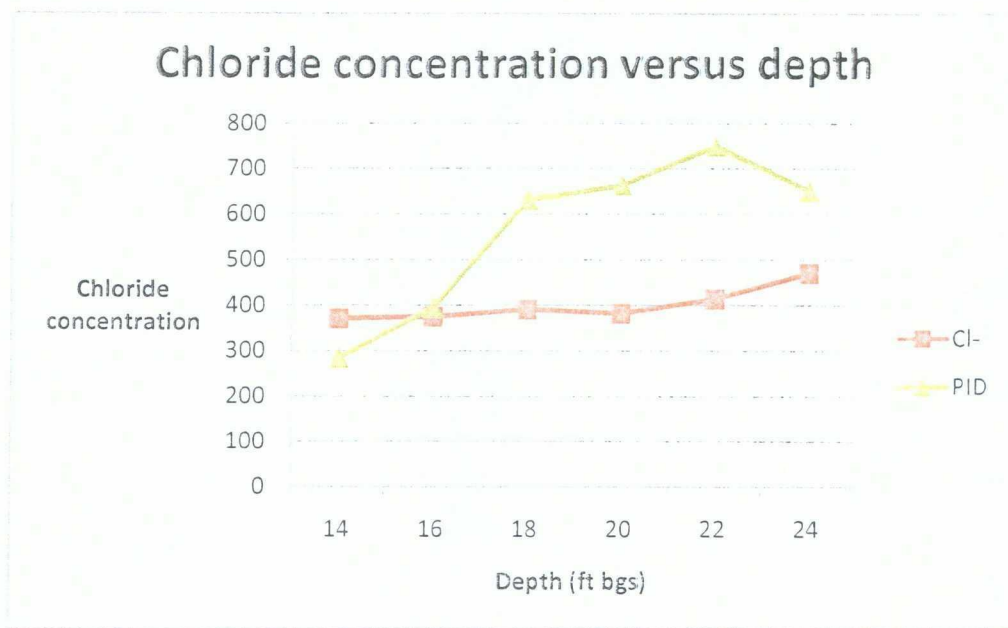


New watertight junction box

6/12/2009

Logger:	Lara Weinheimer		
Driller:	Harrison & Cooper, Inc. Drilling		
Consultant:	N/A - ROC junction box upgrade plan		
Drilling Method:	Geo-probe		
Start Date:	11/12/2009		
End Date:	11/12/2009		
Comments: All samples from split spoon sampling. Located 25 feet south of the former junction box site. Drafted by: Lara Weinheimer TD = 24 ft Estimated depth to GW = 30 ft		Project Name: EME jct. N-8-1 Well ID: SB #1 Location: UL/N sec. 8 T20S R37E Lat: 32°35'4.103"N County: Lea Long: 103°16'33.095" W State: NM	

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
14	371		284			
16	375		395			
18	391	Cl- 16	631	VERY FINE TO FINE SAND WITH CALICHE		
	B <0.05 T 0.432 E 1.06 X 7.43	GRO 751 DRO 2970		slight greenish light brown, dry, moderate hydrocarbon odor		
20	382		663			
22	414		749			
24	471	Cl- 123	651			
	B <0.05 T 0.541 E 1.93 X 3.03	GRO 737 DRO 2130				



COPY



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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: HACK CONDER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO (575) 391-1471

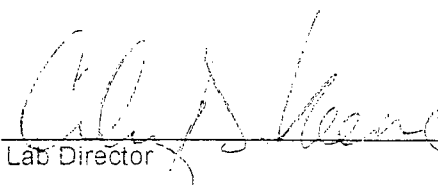
Receiving Date: 11/13/09
Reporting Date: 11/17/09
Project Owner: NOT GIVEN
Project Name: EME JCT. N-8-1
Project Location: EME JCT. N-8-1

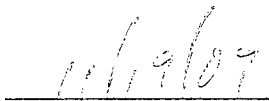
Sampling Date: 11/12/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: CK/ZL/HM

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	CI* (mg/kg)
ANALYSIS DATE:		11/17/09	11/17/09	11/16/09	11/16/09	11/16/09	11/16/09	11/13/09
H18726-1	SB #1 @ 18'	751	2,970	<0.050	0.432	1.06	7.43	16
H18726-2	SB #1 @ 24'	787	2,150	<0.050	0.541	1.98	6.08	128
Quality Control		457	522	0.048	0.047	0.051	0.158	500
True Value QC		500	500	0.050	0.050	0.050	0.150	500
% Recovery		91.4	104	96.0	94.0	102	105	100
Relative Percent Difference		0.6	7.7	<1.0	<1.0	<1.0	1.3	< 0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021; CI-: Std. Methods 4500-CI-B
*Analyses performed on 1:4 w/v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.


Lab Director
H18726 TBCL RICE


Date

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: Rice Operating Company Project Manager: Hack Conder Address: 122 West Taylor City: Hobbs Phone #: 393-9174 Project #: Project Name: Enbridge Project Location: Enbridge Sampler Name: Lara Weinheimer		P.O. #: Company: Attn: Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST							
FOR LAB USE ONLY Lab I.D. H-18726-1 -2		Sample I.D. 5401 6 18' 5401 6 24'		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ACID/BASE ICE / COOL OTHER:		SAMPLING DATE TIME		Chlorides TPH 8015 M BTEX Texas TPH	
Relinquished By: L. Weinheimer Date: 11-13-07 Time: 8:50		Received By: [Signature] Date: 11-13-07 Time: 8:50		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No REMARKS: email results							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Checked By: [Signature] (Initials)		Hconder@riceswd.com Lweinheimer@riceswd.com							

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

NEED SAMPLES BACK, PLEASE

RICE OPERATING COMPANY

122 West Taylor ~ Hobbs, NM 88240

PHONE: (575) 393-9174 FAX: (575) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

CK
MODEL
NO.

✓

MODEL: PGM 7300	SERIAL NO: 590-000183
MODEL: PGM 7300	SERIAL NO: 590-000504
MODEL: PGM 7600	SERIAL NO: 110-12383
MODEL: PGM 7600	SERIAL NO: 110-02920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 924908	EXPIRATION DATE: 7-29-2012
FILL DATE: 7-30-09	METER READING ACCURACY: 100.0

ACCURACY: +/- 2%

SYSTEM	SITE	UNIT	SECTION	TOWNSHIP	RANGE
EME	jct N-8-1	N	8	T20S	R37E

SAMPLE ID: soil bore #1

DEPTH	PID
14'	284
16'	395
18'	631
20'	663
22'	749

DEPTH	PID

DEPTH	PID

DEPTH	PID

DEPTH	PID
24'	651

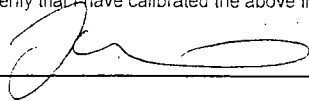
DEPTH	PID

DEPTH	PID

DEPTH	PID

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

Signature



Date

11-12-09

SITE MAP





CARDINAL LABORATORIES

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

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

Receiving Date: 10/06/09
Reporting Date: 10/12/09
Project Number: NOT GIVEN
Project Name: EME JCT N-8-1
Project Location: EME JCT N-8-1

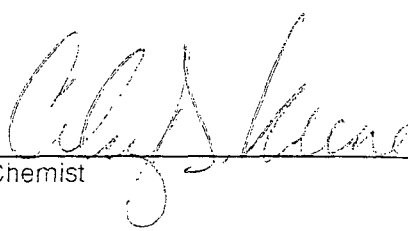
Sampling Date: 10/06/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	Cl*
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	
		(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE		10/12/09	10/12/09	10/07/09
H18422-1	BLENDED BACKFILL	<10.0	1,300	176
H18422-2	5PT BTM COMP	<10.0	349	208
H18422-3	4 WALL COMP	<10.0	489	256
Quality Control		506	543	490
True Value QC		500	500	500
% Recovery		101	109	98.0
Relative Percent Difference		8.7	1.9	2.0

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

*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.


Chemist


Date

H18422 TCL RICE

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

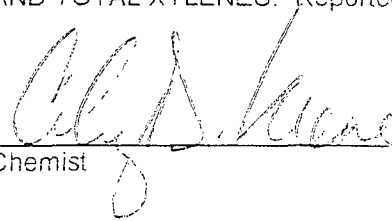
Receiving Date: 10/06/09
Reporting Date: 10/09/09
Project Number: NOT GIVEN
Project Name: EME JCT N-8-1
Project Location: EME JCT N-8-1

Sampling Date: 10/06/09
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	10/08/09	10/08/09	10/08/09	10/08/09
H18422-1 BLENDED BACKFILL	<0.050	<0.050	0.095	<0.300
Quality Control	0.052	0.049	0.048	0.157
True Value QC	0.050	0.050	0.050	0.150
% Recovery	104	98.0	96.0	105
Relative Percent Difference	3.8	4.3	6.6	6.6

METHOD: EPA SW-846 8021B

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


Chemist


Date

ARDINAL LABORATORIES

Company Name: RICE OPERATING

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

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:

X

Model: PGM 7300

Serial No: 590-000183

Model: PGM 7300

Serial No: 590-000508

Model: PGM 7300

Serial No: 590-000504

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 : 924503	EXPIRATION DATE: 7-5-12
FILL DATE: 7-1-09	METER READING ACCURACY: 100

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	N-8-1	N	8	20S	37E

SAMPLE ID	PID	SAMPLE ID	PID
56 Wall Comp	72		
5 point Blue Comp	50		
Blended Backfill	142		

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

SIGNATURE:

[Handwritten Signature]

DATE: 10-10-09



PHONE (575) 393-2326 • 1011 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 11/05/09
Reporting Date: 11/06/09
Project Number: NOT GIVEN
Project Name: EME JCT. N-8-1 (20-37)
Project Location: EME JCT. N-8-1 (20-37)

Sampling Date: 11/05/09
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: ML
Analyzed By: AB

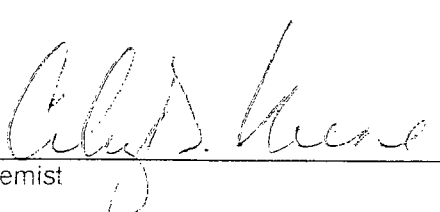
LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₈ -C ₁₀) (mg/kg)	(>C ₁₀ -C ₂₈) (mg/kg)	(mg/kg)

ANALYSIS DATE	11/06/09	11/06/09	11/06/09
H18667-1 BLENDED BACKFILL	<10.0	232	144
Quality Control	558	607	500
True Value QC	500	500	500
% Recovery	112	121	100
Relative Percent Difference	11.3	15.0	<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.

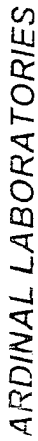
Reported on wet weight.


Chemist


Date

H18667 TCL RICE

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ANALYSIS REQUEST

[illegible]

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Date: <u>11/5/09</u> Time: <u>1:59p</u>		Received By: <u>Wally H. But</u> Received By: _____ Date: _____ Time: _____		Checked By: _____ (Initials) <u>WAB</u>	
Relinquished By: <u>[Signature]</u>		Temp. _____		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Delivered By: (Circle One) Driver - <input checked="" type="checkbox"/> Bus - <input type="checkbox"/> Other: _____		Delivered By: (Circle One) Driver - <input checked="" type="checkbox"/> Bus - <input type="checkbox"/> Other: _____		Sample - UPS - <input type="checkbox"/> Bus - <input type="checkbox"/> Other: _____	

•† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

- * Sample on ice / cooling processed begun

CHLORIDE CONCENTRATION CURVE

RICE Operating Company

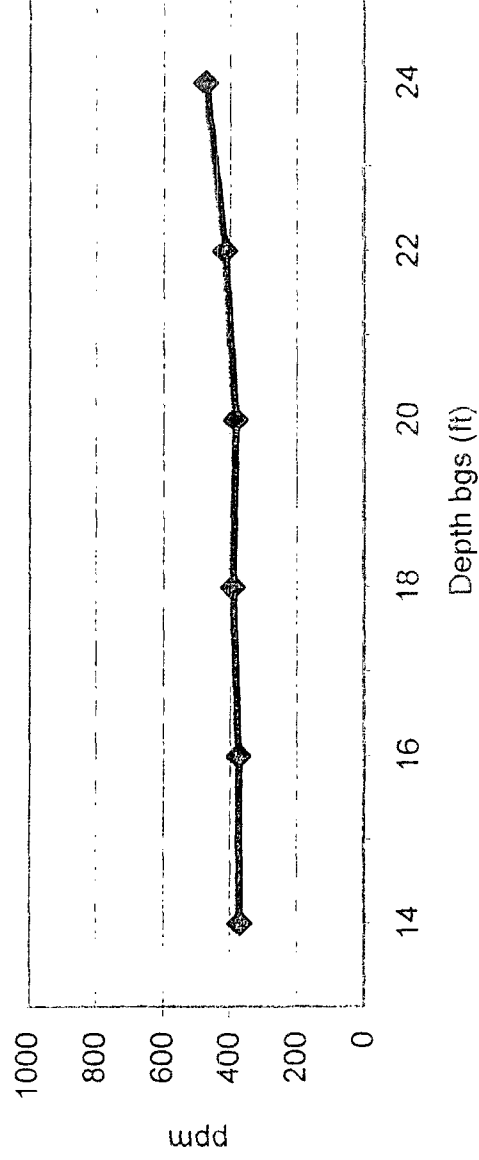
EME Junction N-8-1

Unit 'N', Sec. 8, T20S, R37E

SOIL BORING samples 25' south of the junction

Depth bgs (ft)	[Cl ⁻] ppm
14	371
16	375
18	391
20	382
22	414
24	471

Chloride Concentration vs. Depth



Groundwater = 30 ft.