

1R - 426 - 276

REPORTS

DATE:

3-15-11

1R426-276

BD Jct. K-9

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 6'	Width 5'	Depth 5'
Blinebry-Drinkard (BD)	Jct. K-9	K	9	21S	37E	Lea	eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Millard Deck OTHER _____

Depth to Groundwater 53 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 8/23/2010 Date Completed 9/20/2010 OCD Witness No

Soil Excavated 155.6 cubic yards Excavation Length 20 Width 15 Depth 14 feet

Soil Disposed 108 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 8/30/2010, 9/10/2010 Sample Depth 14'

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.	49.8	<10.0	<10.0	688
BOTTOM COMP.	84.6	<10.0	<10.0	512
BACKFILL COMP.	54.5	<10.0	<10.0	720
BLENDED BACKFILL COMP.	12.8	N/A	N/A	304

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	665
bottom comp.	14'	345
backfill comp.	n/a	574
background	6"	29
vertical delineation at 15 ft. north of the junction (source)	2'	475
	4'	638
	6'	447
	8'	467
	10'	441
	12'	427
	14'	318

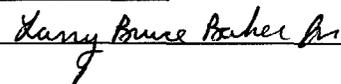
General Description of Remedial Action: This junction and line were eliminated during the pipeline replacement/upgrade program. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 20x15x14-ft deep excavation. Chloride field tests were performed on each sample yielded relatively low concentrations. Organic vapors were measured using a PID, which yielded relatively low concentrations. The excavated soil was blended on site and representative samples were collected from the blended backfill, the bottom of the excavation, and excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH. 108 yards of the blended backfill was hauled to an NMOCD approved facility. The remaining backfill was blended with clean imported soil and a representative sample was collected and sent to a commercial laboratory for analysis of chloride. The blended backfill with clean imported soil was returned to the excavation to 5 ft. below ground surface (BGS). At 5 ft. BGS, a 20 ml plastic liner was installed with a six inch pad of blow sand above and below the liner. The remaining excavation was backfilled with the blended backfill with clean imported soil to 1 ft. BGS. At 1 ft. BGS, clean imported soil was used as a top cap to ground surface and contoured to the surrounding area. An identification marker was placed on the surface at the former junction box site to mark the presence of a plastic liner below. On 9/20/2010, 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 reports, 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 John Harrison SIGNATURE  COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE  DATE 3-15-11

BD JCT. K-9

Unit K, Section 19, T21S, R36E



Site prior to delineation

8/23/2010



Delineation trench being excavated

8/23/2010



Installing plastic liner

9/17/2010



Seeding site

9/20/2010

Analytical Results For:

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

COPY

Received:	08/30/2010	Sampling Date:	08/30/2010
Reported:	09/07/2010	Sampling Type:	Soil
Project Name:	BD JCT K-9 (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: 5 PT BOTTOM COMP (H020765-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	08/31/2010	ND	448	112	400	0.00		
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	09/05/2010	ND	187	93.5	200	1.72		
DRO >C10-C28	<10.0	10.0	09/05/2010	ND	195	97.5	200	17.2		
<i>Surrogate: 1-Chlorooctane</i>		<i>92.8 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>71.4 %</i>	<i>70-130</i>							

Sample ID: 4 WALL COMP. (H020765-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/31/2010	ND	448	112	400	0.00		
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	09/05/2010	ND	187	93.5	200	1.72		
DRO >C10-C28	<10.0	10.0	09/05/2010	ND	195	97.5	200	17.2		
<i>Surrogate: 1-Chlorooctane</i>		<i>91.9 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>70.0 %</i>	<i>70-130</i>							

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:	08/30/2010	Sampling Date:	08/30/2010
Reported:	09/07/2010	Sampling Type:	Soil
Project Name:	BD JCT K-9 (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BLENDED BACKFILL (H020765-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	08/31/2010	ND	448	112	400	0.00		
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	09/05/2010	ND	187	93.5	200	1.72		
DRO >C10-C28	<10.0	10.0	09/05/2010	ND	195	97.5	200	17.2		
<i>Surrogate: 1-Chlorooctane</i>		90.4 %	70-130							
<i>Surrogate: 1-Chlorooctadecane</i>		70.2 %	70-130							

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



CARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO		ANALYSIS REQUEST																			
Company Name: <u>RICE OPERATING</u>		P.O. #:																			
Project Manager: <u>BRUCE BAKER</u>		Company:																			
Address:		Attn:																			
City:		Address:																			
Phone #:		City:																			
Project #:		State:																			
Project Name: <u>BO JEF K-9 (22/37)</u>		Phone #:																			
Project Location:		Fax #:																			
analyzer Name: <u>ROBERT HARRISON</u>		Matrix:																			
FOR LAB USE ONLY		PRESERV:																			
Lab I.D.		DATE																			
Sample I.D.		TIME																			
1		8/30/0		9:15		✓		✓		✓		✓		✓		✓		✓		✓	
2		8/30/0		9:35		✓		✓		✓		✓		✓		✓		✓		✓	
3		8/31/0		10:00		✓		✓		✓		✓		✓		✓		✓		✓	

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✓ DPT
 ✓ CHLORIDE

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Relinquished By: ROBERT HARRISON Date: _____ Received By: _____
 Time: _____
 Date: 8/30/10 Received By: _____
 Time: 4:05 PM
 Delivered By: (Circle One) UPS - Bus - Other: _____
 Sample Condition: 5°C Checked By: _____
 Cool Intact: Yes No
 Initials: JH
 REMARKS: EMAIL RESULTS

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

#26

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:

✓

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: 930360	EXPIRATION DATE: 5/24/13
METER READING ACCURACY: 100.0	

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	K-9	K	9	215	37E

SAMPLE ID	PID	SAMPLE ID	PID
4 WALL COMP.	49.8	COPY	
BOTTOM COMP.	84.6		
BLENDED BACKFILL	54.5		

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

SIGNATURE: 

DATE: **8/30/10**

Analytical Results For:

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

Received:	09/10/2010	Sampling Date:	09/10/2010
Reported:	09/15/2010	Sampling Type:	Soil
Project Name:	BD JCT K-9 (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: BLENDED BACKFILL (H020834-01)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/13/2010	ND	448	112	400	3.51	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

RICE OPERATING COMPANY

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 PHONE: (575) 393-9174 FAX: (575) 397-1471
 PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

✓

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 : 930360	EXPIRATION DATE: 5/24/13
FILL DATE:	METER READING ACCURACY: 100.0

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	K-9	K	9	215	37E

SAMPLE ID	PID	SAMPLE ID	PID
BLENDED BACKFILL	12.8		

COPY

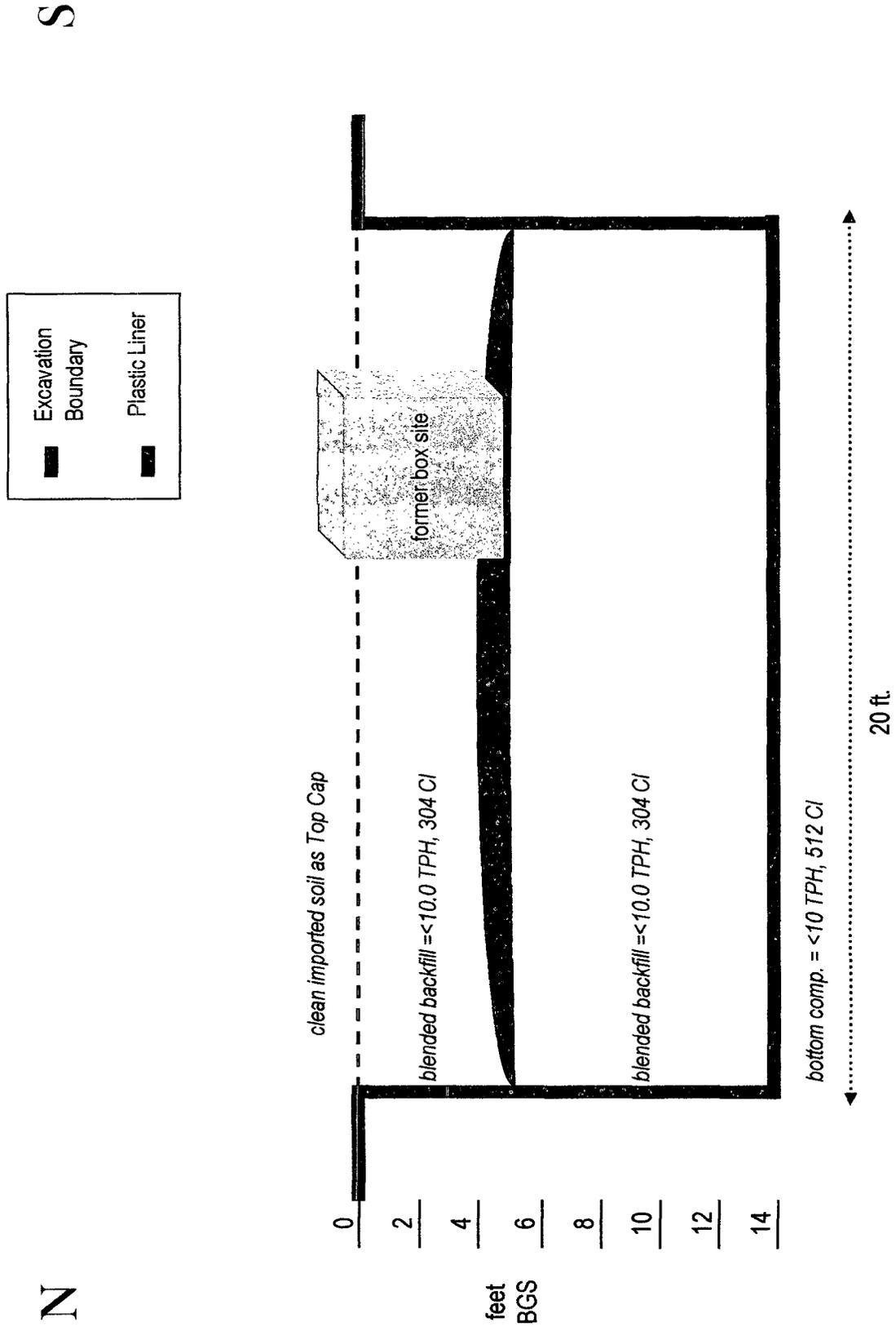
I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE:

DATE: **9/10/10**

BD Jct. K-9
Unit 'K', Sec. 9, T21S, R37E

Excavation Cross-Section



CHLORIDE CONCENTRATION CURVE

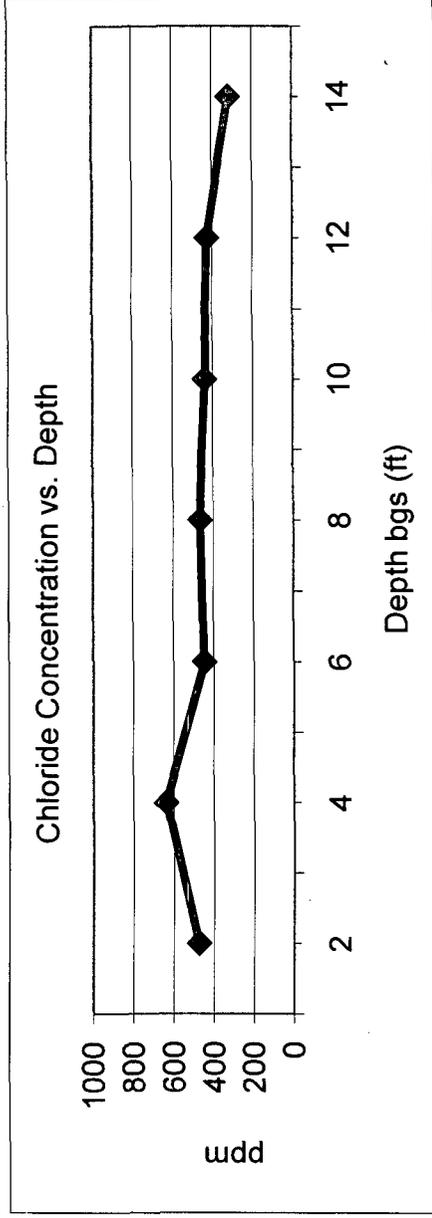
RICE Operating Company

BD Jct. K-9

Unit 'K', Sec. 9, T21S, R37E

Backhoe samples at 15 ft. north of junction (source)

Depth bgs (ft)	Cl ⁻ ppm
2	475
4	638
6	447
8	467
10	441
12	427
14	318



Groundwater = 53 ft