

1R - 426-91

REPORTS

DATE:

9/15/2004

BD Vent C-2

1R0426-91

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
BD	vent C-2	C	2	22S	37E	Lea	Length	Width	Depth
							12	7	7

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

Depth to Groundwater 50 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 4/22/2004 Date Completed 7/15/2004 OCD Witness No

Soil Excavated 200 cubic yards Excavation Length 30 Width 30 Depth 6 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 4/26/2004, 4/27/2004, 7/15/2004 Sample Depth 6, 20, 38 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.

CHLORIDE FIELD TESTS

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
vertical grab @ 20 ft	0.0	<10.0	<10.0	640
4-WALL COMP.	0.0	<10.0	<10.0	352
BOTTOM @ 6 ft	0.0	<10.0	13.7	1020
REMED. BACKFILL	0.0	<10.0	60.3	496
SOIL BORE @ 38 ft	0.0	<10.0	<10.0	160

LOCATION	DEPTH (ft)	ppm
4-wall comp.	1-5 ft	308
bottom comp.	6 ft	1015
remed. backfill	n/a	578
Vertical	8	434
at jct.	9	1083
	10	982
	11	950
	12	1899
	14	2550
	16	2234
	18	1841
	20	685
Soil Bore	25	575
	26	536
	27	646
	30	239
	35	123
	36	150
	37	150
	38	146

General Description of Remedial Action: This junction box contained a vent.

The site was delineated with a backhoe while chloride field tests and PID screenings were conducted at regular intervals. Vertical chloride delineation was extended to 20 ft BGS where a conclusive trend was not observed. PID concentrations were generally minimal throughout the 30 x 30 x 6-ft-deep excavation. NMOCD TPH guidelines were met. To inhibit downward migration of residual chloride, a 1-ft thick clay barrier was installed at the bottom of the hole at 6 ft. The excavation was backfilled with the blended, excavated soils because the junction had to be put back into service with a new watertight junction box. On 7/15/2004, a soil bore was initiated at the site to delineate chloride further. The bore was advanced to 38 ft BGS where a conclusive trend of decline was observed as concentrations fell to background levels (see graph). The bottom of the bore hole was plugged with bentonite and the remainder was filled with drill cutting. The disturbed surface was seeded with a blend of native vegetation on 5/25/04 and will be monitored for growth.

enclosures: chloride graph, photos, lab results, PID screenings, bore log, diagrams

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

SITE SUPERVISOR Joe Gatts SIGNATURE Joe Gatts COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 9/15/2004 TITLE Project Scientist

BD C-2 vent



Old junction box before replumbing 7/14/2003



New plumbing at junction 7/16/2003



Delineation

4/22/04



Installing and compacting clay barrier

5/4/2004

BD C-2 vent



testing clay

5/4/2004



completing junction box; compacting surrounding soils

5/25/2004



seeding disturbed surface

6/24/2004



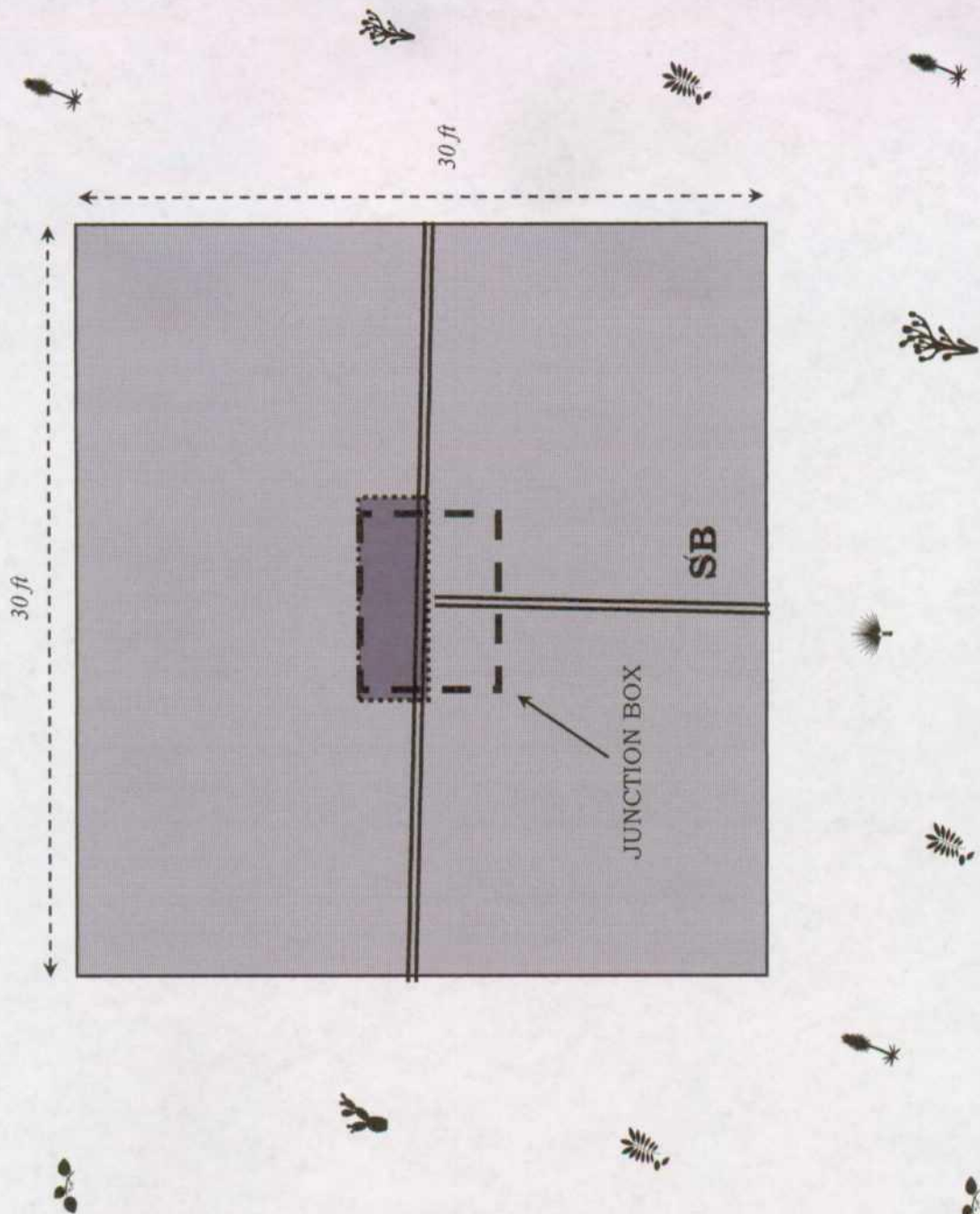
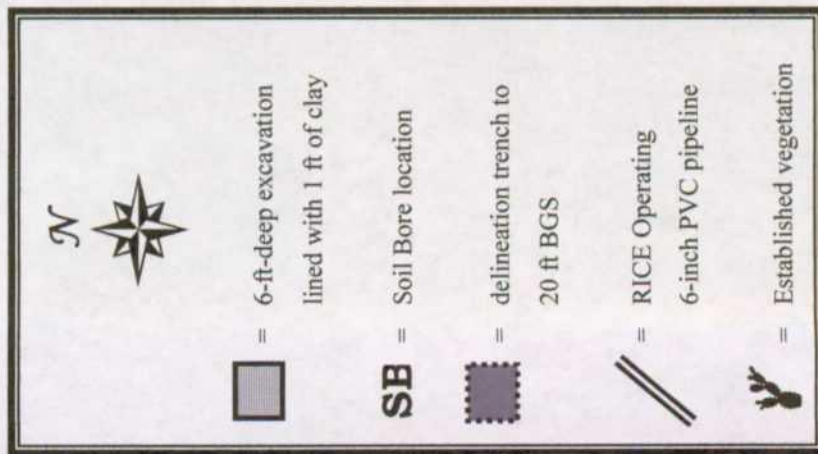
soil bore

7/15/2004

BD C-2 vent

T22S, R37E

30 x 30 x 6 ft Excavation

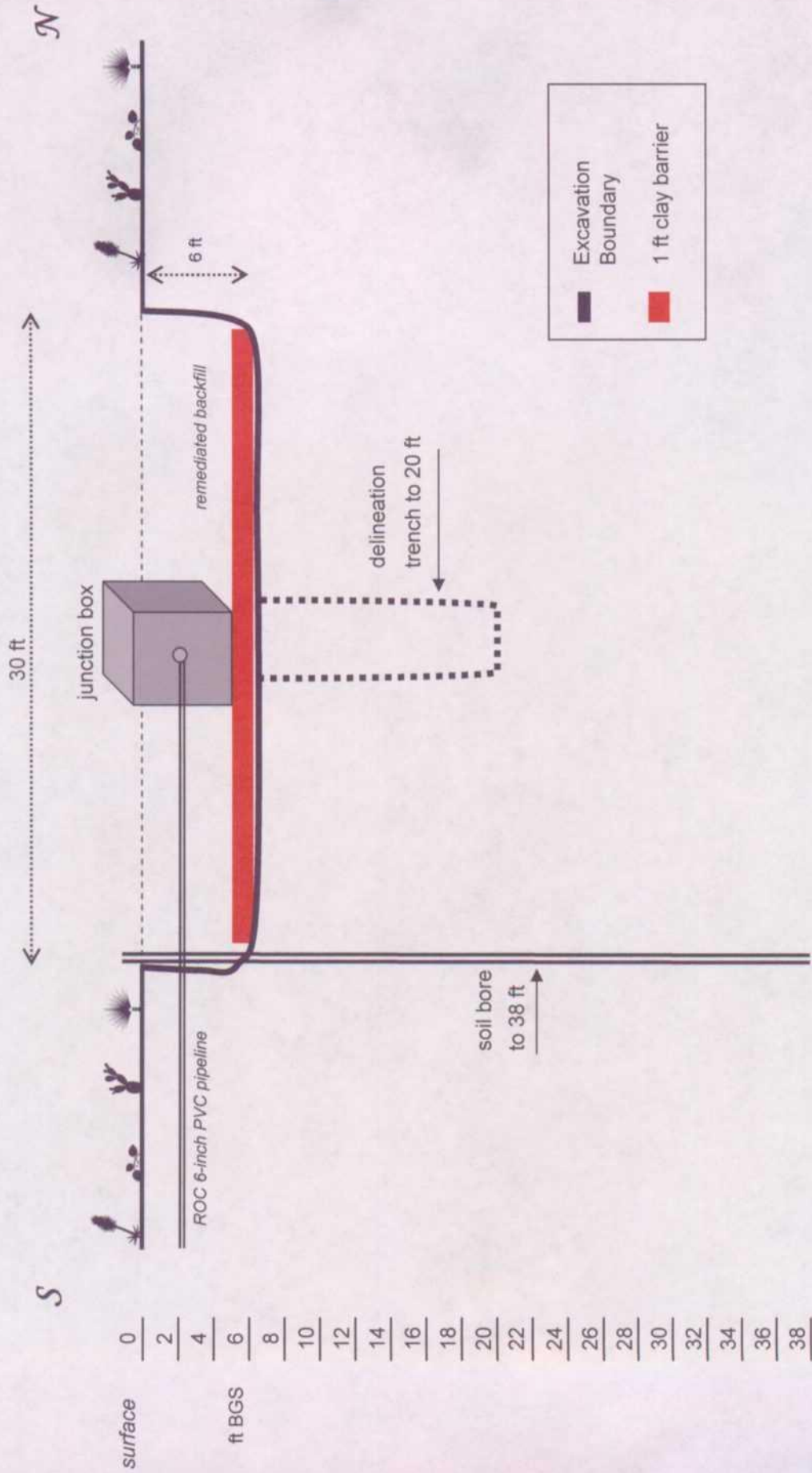


BD C-2 vent

30 x 30 x 6 ft

Excavation Cross-Section

A delineation trench was extended down to 20 ft BGS;
not included in the 6 ft bottom composite sample.



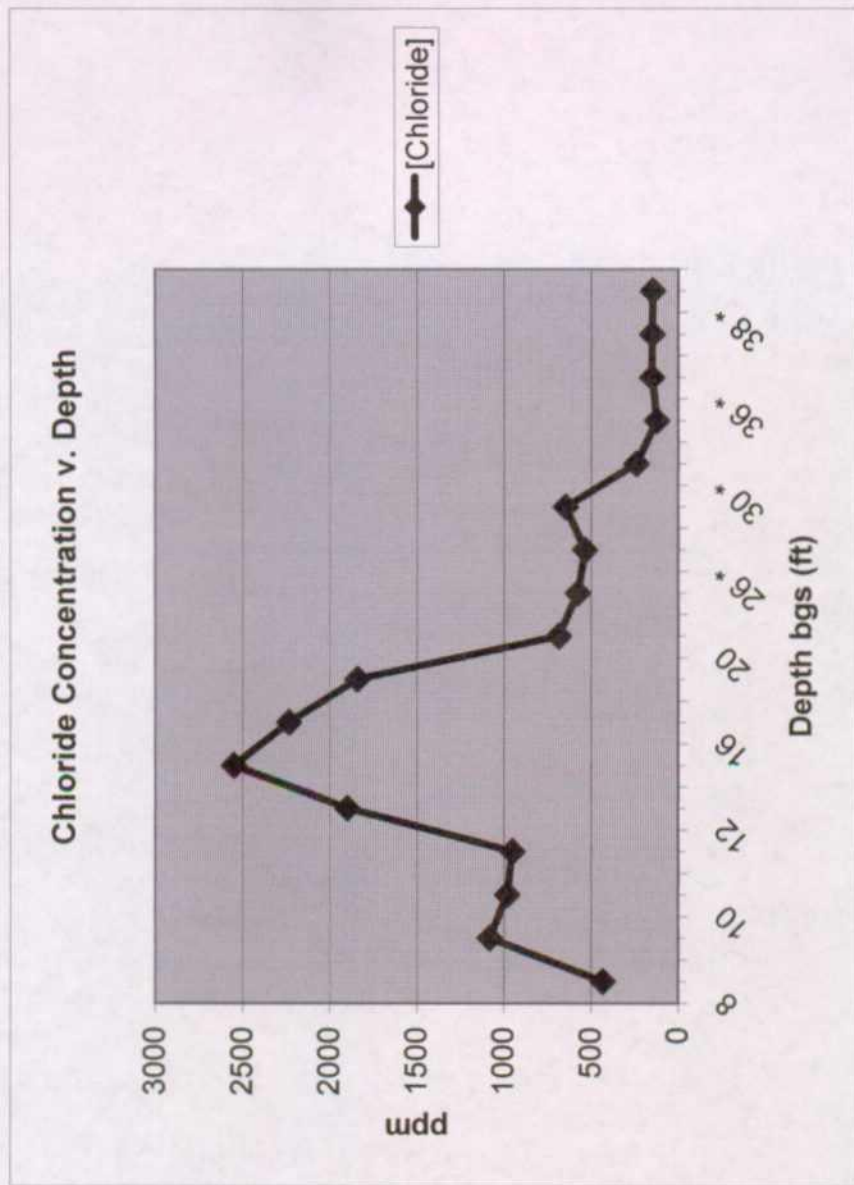
BD vent C-2

T22S, R37E

Vertical Delineation at Source

Depth bgs (ft)	[Cl ⁻] ppm
8	434
9	1083
10	982
11	950
12	1899
14	2550
16	2234
18	1841
20	685
25 *	575
26 *	536
27 *	646
30 *	239
35 *	123
36 *	150
37 *	150
38 *	146

* Soil bore samples



Groundwater = 50 ft

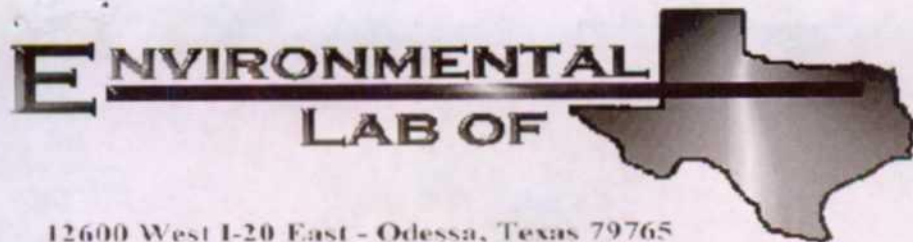
K. Farris
RICE Operating Company

Logger:		Drew Parker, Mort Bates		Client:		Well ID:	
Driller:		Atkins Engineering Associates, Inc.		RICE Operating Company		SB-1	
Drilling Method:		Hollow Stem Auger		Project Name:			
Start Date:		7/14/2004		BD C-2 vent			
End Date:		7/15/2004		Location:			
Notes:		15 ft south of junction box TD = 38 ft Groundwater = 50 ft		BD SWD System Sec. 2, T22S, R37E Lea County, NM			
Depth (feet)	Split Spoon chloride	PID	Description	Lithology	Additional Notes		
0.0			0 - 2 ft SILTY SAND-CALICHE MIXTURE loose, tan & white, dry				
1.0							
2.0							
3.0							
4.0			2 - 7 ft SILTY SAND loose, brown, damp				
5.0							
6.0							
7.0							
8.0			7 - 12 ft SILTY SAND w/SMALL AMOUNT CALICHE loose, tan, damp				
9.0							
10.0							
11.0							
12.0			12 - 18 ft SILTY SAND loose, reddish tan, damp				
13.0							
14.0							
15.0	658	1.1					
16.0			18 - 24 ft SILTY SAND w/CALICHE firm, tan, dry				
17.0							
18.0							
19.0							
20.0	669	1.2					
21.0							
22.0							
23.0							
24.0			24 - 31 ft CEMENTED SANDSTONE w/SILTY SAND hard, light tan, dry				
25.0	575	0.8					
26.0	536	0.2					
27.0	646	0.7					
28.0							
29.0							
30.0	239	0.3					
31.0							
32.0			31 - 38 ft CALICHE w/SILTY SAND loose, reddish tan, dry				
33.0							
34.0							
35.0	123	0.5					
36.0	150	0.1					
37.0	150	0.0					
38.0	146	0.0					

remainder of bore hole backfilled with drill cuttings

bentonite seal

lab = 190 ppm



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Roy Rascon
Rice Operating Co.
122 W. Taylor
Hobbs, NM 88240

Project: C-2 Vent Soil Bore

Project Number: None Given

Location: BD

Lab Order Number: 4G20004

Report Date: 07/26/04

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: C-2 Vent Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/26/04 10:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
15' South Grab @ 38' Bgs	4G20004-01	Soil	07/15/04 10:30	07/20/04 08:00

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: C-2 Vent Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/26/04 10:20

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
15' South Grab @ 38' Bgs (4G20004-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42013	07/20/04	07/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.6 %	70-130		"	"	"	"	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: C-2 Vent Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/26/04 10:20

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
15' South Grab @ 38' Bgs (4G20004-01) Soil									
Chloride	160	20.0	mg/kg Wet	2	EG42111	07/20/04	07/21/04	SW 846 9253	
% Solids	91.0		%	1	EG42011	07/20/04	07/20/04	% calculation	

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: C-2 Vent Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/26/04 10:20

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EG42013 - Solvent Extraction (GC)

Blank (EG42013-BLK1)

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	70-130		
Surrogate: 1-Chlorooctadecane	37.9		"	50.0		75.8	70-130		

LCS (EG42013-BS1)

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	470	10.0	mg/kg wet	500		94.0	75-125		
Diesel Range Organics >C12-C35	488	10.0	"	500		97.6	75-125		
Total Hydrocarbon C6-C35	958	10.0	"	1000		95.8	75-125		
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.2	70-130		
Surrogate: 1-Chlorooctadecane	40.6		"	50.0		81.2	70-130		

Calibration Check (EG42013-CCV1)

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	420		mg/kg	500		84.0	80-120		
Diesel Range Organics >C12-C35	474		"	500		94.8	80-120		
Total Hydrocarbon C6-C35	894		"	1000		89.4	80-120		
Surrogate: 1-Chlorooctane	57.2		"	50.0		114	70-130		
Surrogate: 1-Chlorooctadecane	42.3		"	50.0		84.6	70-130		

Matrix Spike (EG42013-MS1)

Source: 4G20004-01

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	481	10.0	mg/kg dry	549	ND	87.6	75-125		
Diesel Range Organics >C12-C35	514	10.0	"	549	ND	93.6	75-125		
Total Hydrocarbon C6-C35	995	10.0	"	1100	ND	90.5	75-125		
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	70-130		
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130		

Matrix Spike Dup (EG42013-MSD1)

Source: 4G20004-01

Prepared: 07/20/04 Analyzed: 07/22/04

Gasoline Range Organics C6-C12	471	10.0	mg/kg dry	549	ND	85.8	75-125	2.10	20
Diesel Range Organics >C12-C35	492	10.0	"	549	ND	89.6	75-125	4.37	20
Total Hydrocarbon C6-C35	963	10.0	"	1100	ND	87.5	75-125	3.27	20
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	70-130		
Surrogate: 1-Chlorooctadecane	39.0		"	50.0		78.0	70-130		

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: C-2 Vent Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/26/04 10:20

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG42011 - General Preparation (Prep)

Blank (EG42011-BLK1)

Prepared & Analyzed: 07/20/04

% Solids 100 %

Duplicate (EG42011-DUP1)

Source: 4G16012-01

Prepared & Analyzed: 07/20/04

% Solids 99.0 % 98.0 1.02 20

Batch EG42111 - Water Extraction

Blank (EG42111-BLK1)

Prepared: 07/20/04 Analyzed: 07/21/04

Chloride ND 20.0 mg/kg Wet

Matrix Spike (EG42111-MS1)

Source: 4G20003-01

Prepared: 07/20/04 Analyzed: 07/21/04

Chloride 2200 20.0 mg/kg Wet 500 1720 96.0 80-120

Matrix Spike Dup (EG42111-MSD1)

Source: 4G20003-01

Prepared: 07/20/04 Analyzed: 07/21/04

Chloride 2210 20.0 mg/kg Wet 500 1720 98.0 80-120 0.454 20

Reference (EG42111-SRM1)

Prepared: 07/20/04 Analyzed: 07/21/04

Chloride 5000 mg/kg 5000 100 80-120

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: C-2 Vent Soil Bore
Project Number: None Given
Project Manager: Roy Rascon

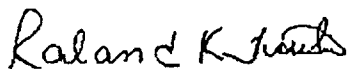
Fax: (505) 397-1471

Reported:
07/26/04 10:20

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

7/26/04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

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**ARDINAL
LABORATORIES**

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

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

Receiving Date: 04/27/04
Reporting Date: 04/28/04
Project Number: NOT GIVEN
Project Name: C-2
Project Location: B-D

Sampling Date: 04/27/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/GP

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	
ANALYSIS DATE		04/27/04	04/27/04	04/28/04
H8647-1	4 WALL COMP.	<10.0	<10.0	352
H8647-2	BOTT. COMP. AT 6'	<10.0	13.7	1020
H8647-3	REMD. BACKFILL	<10.0	60.3	496
Quality Control		790	762	1010
True Value QC		1000	1000	1000
% Recovery		98.8	95.3	101
Relative Percent Difference		2.5	6.3	3.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI*: Std. Methods 4500-CIB

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


Chemist4/28/04
Date

H8647.XLS

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ARDINAL LABORATORIES, INC.

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page _____ of _____

Company Name: RICE Operating Project Manager: Kristin Farris Address: 122 W. Taylor City: Hobbs State: NM Zip: 88240 Phone #: (505) 398-9174 Fax #: (505) 397-1471 Project #: Project Name: C-2 Project Location: B-D Sample Name: K. Farris FOR LAB USE ONLY										P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:	
Lab I.D.											
Sample I.D.											
Lab I.D. H86421 Well Comp C 1 (G)RAB OR (G)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL CRUDE OIL SLUDGE OTHER: ACID/BASE: ICE /COOL OTHER: DATE TIME											
Lab I.D. -2 Well Comp C 1 (G)RAB OR (G)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL CRUDE OIL SLUDGE OTHER: ACID/BASE: ICE /COOL OTHER: DATE TIME											
Lab I.D. -3 Well Comp C 1 (G)RAB OR (G)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL CRUDE OIL SLUDGE OTHER: ACID/BASE: ICE /COOL OTHER: DATE TIME											
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Lab I.D. Well Comp (G)RAB OR (G)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL CRUDE OIL SLUDGE OTHER: ACID/BASE: ICE /COOL OTHER: DATE TIME											
Lab I.D. Well Comp (G)RAB OR (G)											



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

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: JOE GATTS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO:

Receiving Date: 04/27/04
Reporting Date: 04/28/04
Project Number: NOT GIVEN
Project Name: C-2
Project Location: B-D

Sampling Date: 04/26/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/GP

LAB NUMBER SAMPLE ID	GRO	DRO	CI*
	(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	(mg/Kg)
ANALYSIS DATE	04/27/04	04/27/04	04/27/04
H8643-1 20' BGS AT SOURCE	<10.0	<10.0	640
Quality Control	790	762	1010
True Value QC	1000	1000	1000
% Recovery	98.8	95.3	101
Relative Percent Difference	2.5	6.3	3.0

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.


Chemist


Date

H8643.XLS

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 analyses. 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.



ARDINAL LABORATORIES, INC.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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* Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.

RICE OPERATING COMPANY

122 WEST TAYLOR

HOBBS, NEW MEXICO 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

VOC FIELD TEST REPORT FORM

MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S

SERIAL NO: 104412

CALIBRATION GAS

GAS COMPOSITION: ISOBUTYLENE

100 PPM

AIR

BALANCE

LOT NO: 02-22-30

FILL DATE: 5/20/03

EXP. DATE: 11/20/04

ACCURACY: ±0.2%

METER READING

ACCURACY: 99.8

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
B D	C-2	C	2	22	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
N. WALL	0		
S. WALL	0		
E. WALL	0		
W. WALL	0		
Both Comp	0		
Reversal Back	0		
4 WALL Comp	0		

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

J. Galt
Signature

7/27/04
Date