

1R - 426-105

REPORTS

DATE:

9/15/2004

BD JCH. C-4-3

1R0426-105

DISCLOSURE REPORT

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
BD	C-4-3	C	4	22S	37E	Lea	Length	Width	Depth
							moved 25 ft South		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Priscilla Brunson Moody OTHER _____

Depth to Groundwater 93 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 6/16/2004 Date Completed 7/6/2004 OCD Witness No

Soil Excavated 274 cubic yards Excavation Length 22 Width 28 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 6/17/2004, 6/22/2004, 7/1/2004 Sample Depth 12, 17 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 NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
VERTICAL GRAB @ 17 ft	0.298	0.065	4.78	5.71	21.7	2640	64
BOTTOM COMPOSITE @ 12 ft	See enclosed laboratory analytical report and BTEX Study tables				156	984	372
NORTH WALL COMPOSITE					141	911	436
SOUTH WALL COMPOSITE					19	183	617
EAST WALL COMPOSITE					183	1070	383
WEST WALL COMPOSITE					8.82	27.9	585
REMEDIATED BACKFILL COMPOSITE	<0.005	<0.005	<0.005	<0.015	<10.0	414	289

General Description of Remedial Action: This junction box site was delineated using a backhoe while chloride field tests and PID screenings were conducted at regular intervals. Within the 22 x 28 x 12-ft-deep excavation, chloride concentrations were very low and similar to the background level (87 ppm). Some of the samples collected within the excavation yielded elevated PID readings. The bottom and wall samples were analyzed for BTEX after being composited under laboratory conditions. Comparative tables showing these results are enclosed. NMOCD BTEX guidelines were met. NMOCD TPH guidelines were not met on the following samples: vertical grab at 17 ft, bottom composite, at 12 ft, north wall composite, and the east wall composite. The excavated soils were blended on site and then backfilled into the hole. An identification plate was placed on the surface to mark the site of the former junction box for future considerations. A new watertight junction box was built 25 ft south of this location.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: chloride graph, photos, lab results, BTEX study

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	8	84
at jct.	9	83
	10	84
	11	140
	12	87
	17	81
north wall comp.	0-12	495
south wall comp.	0-12	857
east wall comp.	0-12	464
west wall comp.	0-12	590
bottom comp.	12	393

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

*** This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.**

BD jct. C-4-3

unit 'C', Sec. 4, T22S, R37E



undisturbed junction box

7/14/2003



new plumbing for new junction 25 ft South

7/16/2004



completed new junction box 25 ft south of old one

11/12/2003



beginning excavation at old box

6/16/2004



delineation & excavation

June 2004



backfilling excavation

7/6/2004



backfilled site with identification plate marking old box site
9/16/2004

2004 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: BD
Site: jct. C-4-3

Date: 6/22/2004
Sampler: Joe Gatts (ROC)
Laboratory: Environmental Lab of Texas

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.
Revised Junction Box Upgrade Work Plan (July 16, 2003)

Location	Component	PID reading (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes
bottom composite at 12 ft BGS	1	41.3	FIELD COMPOSITE			0.962
	2	57.0				
	3	947.0				
	4	180.0				
	5	709.0				
			LAB COMPOSITE (mg/kg)			
			0.0268	0.139	0.155	1.208

FIELD COMPOSITE (mg/kg)						
NORTH Wall Composite	1	226.0				0.958
	2	206.0				
	3	225.0				
	4	774.0				
	5	156.0				
			LAB COMPOSITE (mg/kg)			
			<0.0025	0.0796	0.184	
			<0.0025	0.0977	0.350	1.119

BD

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jct. C-4-3

Location	Component	PID reading (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes
			FIELD COMPOSITE			(mg/kg)
SOUTH Wall Composite	1	4.8	<0.0025	0.0265	0.0433	0.1646
	2	3.0				
	3	0.1				
	4	0.2				
	5	285.0				
			LAB COMPOSITE			
			<0.0025	0.0289	0.0656	0.2342

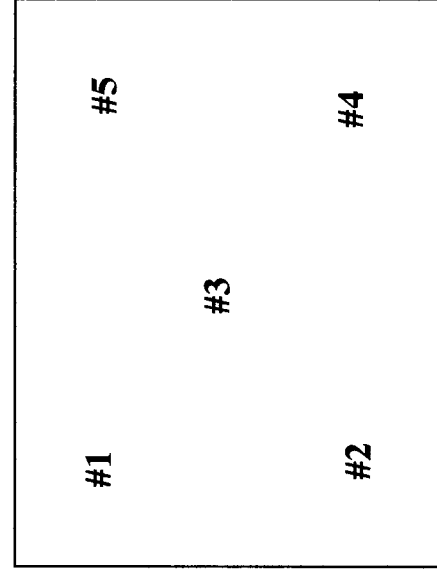
		FIELD COMPOSITE			(mg/kg)	
EAST Wall Composite	1	55.7	<0.0025	0.135	0.126	0.923
	2	244.0				
	3	388.0				
	4	136.0				
	5	178.0				
		LAB COMPOSITE			(mg/kg)	
		<0.0025	0.100	0.186	1.089	

BD

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jct. C-4-3

Location	Component	PID reading (ppm)	Benzene	Toluene	Ethyl Benzene	Total Xylenes
			FIELD COMPOSITE (mg/kg)			
WEST Wall Composite	1	990.0	<0.0025	<0.0025	<0.0025	<0.0025
	2	17.6				
	3	4.1				
	4	5.9				
	5	16.2				
			LAB COMPOSITE (mg/kg)			
			<0.0025	<0.0025	<0.0025	<0.0025



All composite sample components
are collected in this pattern.



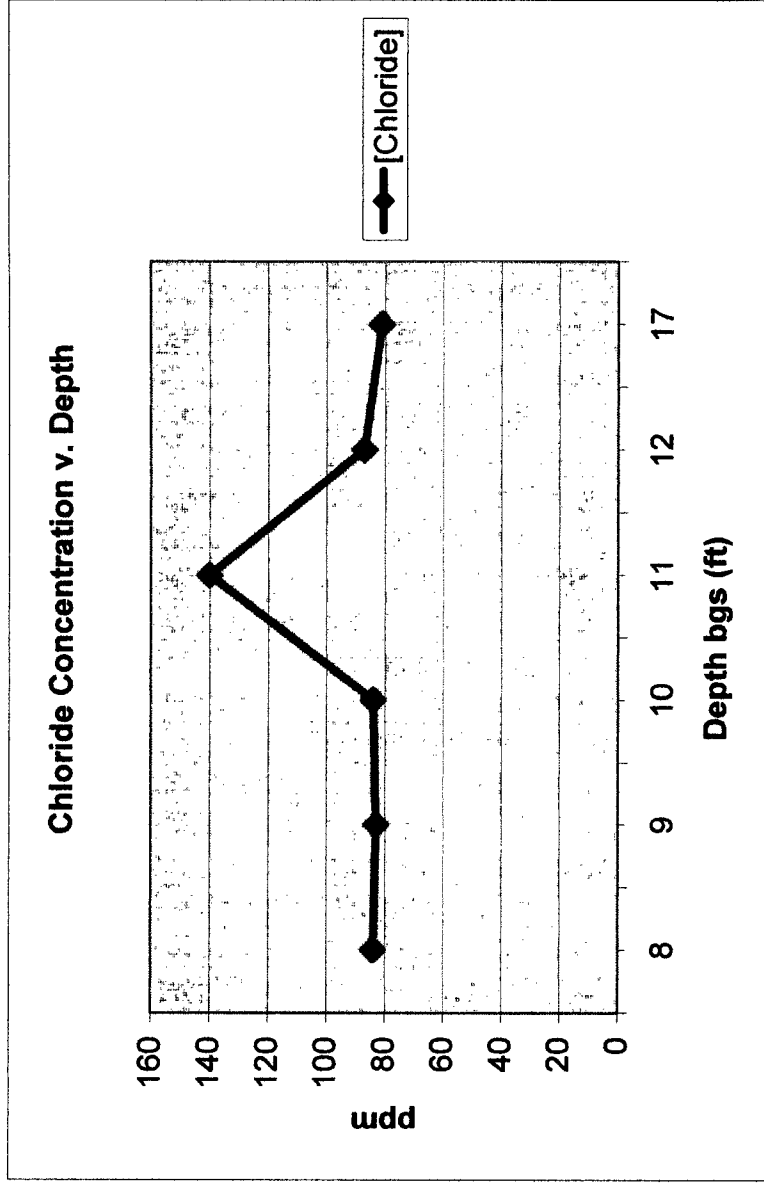
BD jct. C-4-3

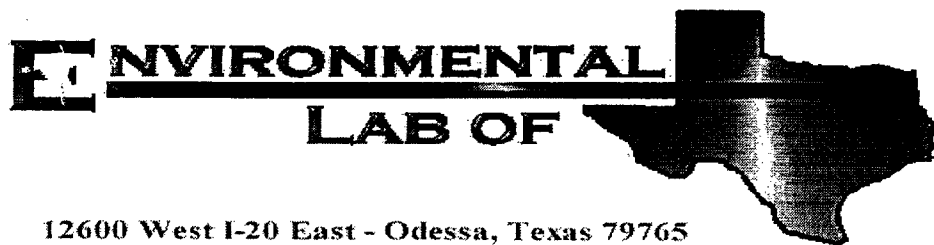
T22S, R37E

Vertical Delineation at Source

Depth bgs (ft)	[Cl ⁻] ppm
8	84
9	83
10	84
11	140
12	87
17	81

Groundwater = 93 ft





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project **C-4-3**

Project Number: None Given

Location: None Given

Lab Order Number: 4F28001

Report Date: 07/01/04

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
West Wall Pt #1,2,3,4,5	4F28001-01	Soil	06/22/04 13:40	06/28/04 07:52
South Wall Pt #1,2,3,4,5	4F28001-02	Soil	06/22/04 13:30	06/28/04 07:52
East Wall Pt #1,2,3,4,5	4F28001-03	Soil	06/22/04 13:00	06/28/04 07:52
North Wall Pt #1,2,3,4,5	4F28001-04	Soil	06/22/04 13:10	06/28/04 07:52
Bottom Pt #1,2,3,4,5 @ 12' Bgs	4F28001-05	Soil	06/22/04 13:20	06/28/04 07:52
East Wall Field Comp	4F28001-06	Soil	06/22/04 13:05	06/28/04 07:52
West Wall Field Comp	4F28001-07	Soil	06/22/04 13:40	06/28/04 07:52
North Wall Field Comp	4F28001-08	Soil	06/22/04 13:10	06/28/04 07:52
South Wall Field Comp	4F28001-09	Soil	06/22/04 13:30	06/28/04 07:52
Bottom Wall Field Comp @12' bgs	4F28001-10	Soil	06/22/04 13:20	06/28/04 07:52

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West Wall Pt #1,2,3,4,5 (4F28001-01) Soil <i>LAB COMP.</i>									
Benzene	ND	0.0250	mg/kg dry	25	EF42907	06/25/04	06/28/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		"	"	"	"	
South Wall Pt #1,2,3,4,5 (4F28001-02) Soil <i>LAB COMP.</i>									
Benzene	ND	0.0250	mg/kg dry	25	EF42907	06/25/04	06/28/04	EPA 8021B	
Toluene	0.0289	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0656	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.188	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0462	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	80-120		"	"	"	"	
East Wall Pt #1,2,3,4,5 (4F28001-03) Soil <i>LAB COMP.</i>									
Benzene	ND	0.0250	mg/kg dry	25	EF42907	06/25/04	06/28/04	EPA 8021B	
Toluene	0.100	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.186	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.820	0.0250	"	"	"	"	"	"	
Xylene (o)	0.269	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.3 %	80-120		"	"	"	"	
North Wall Pt #1,2,3,4,5 (4F28001-04) Soil <i>LAB COMP.</i>									
Benzene	ND	0.0250	mg/kg dry	25	EF42907	06/25/04	06/28/04	EPA 8021B	
Toluene	0.0977	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.350	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.845	0.0250	"	"	"	"	"	"	
Xylene (o)	0.274	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	80-120		"	"	"	"	

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

**Organics by GC
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom Pt #1,2,3,4,5 @ 12' Bgs (4F28001-05) Soil <i>LAB COMP</i>									
Benzene	0.0268	0.0250	mg/kg dry	25	EF42907	06/25/04	06/28/04	EPA 8021B	
Toluene	0.139	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.155	0.0250	"	"	"	"	"	"	
Xylene (p/m)	1.08	0.0250	"	"	"	"	"	"	
Xylene (o)	0.128	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		131 %	80-120	"	"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		97.9 %	80-120	"	"	"	"	"	
East Wall Field Comp (4F28001-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG40101	06/29/04	06/29/04	EPA 8021B	
Toluene	0.135	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.126	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.701	0.0250	"	"	"	"	"	"	
Xylene (o)	0.222	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.2 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	183	10.0	mg/kg dry	1	EF42803	06/28/04	06/28/04	EPA 8015M	
Diesel Range Organics >C12-C35	1070	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1250	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		86.8 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-130	"	"	"	"	"	
West Wall Field Comp (4F28001-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG40101	06/29/04	06/29/04	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-120	"	"	"	"	"	
Gasoline Range Organics C6-C12	J [8.82]	10.0	mg/kg dry	1	EF42803	06/28/04	06/28/04	EPA 8015M	J
Diesel Range Organics >C12-C35	27.9	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	27.9	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.0 %	70-130	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.8 %	70-130	"	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
North Wall Field Comp (4F28001-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG40101	06/29/04	06/29/04	EPA 8021B	
Toluene	0.0796	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.184	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.700	0.0250	"	"	"	"	"	"	
Xylene (o)	0.259	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	141	10.0	mg/kg dry	1	EF42803	06/28/04	06/28/04	EPA 8015M	
Diesel Range Organics >C12-C35	911	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1050	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		105 %	70-130		"	"	"	"	
South Wall Field Comp (4F28001-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG40101	06/29/04	06/29/04	EPA 8021B	
Toluene	0.0265	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0433	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.131	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0336	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		86.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.6 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	19.0	10.0	mg/kg dry	1	EF42803	06/28/04	06/28/04	EPA 8015M	
Diesel Range Organics >C12-C35	183	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	202	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.6 %	70-130		"	"	"	"	
Bottom XXXX Field Comp @12' bgs (4F28001-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG40101	06/29/04	06/29/04	EPA 8021B	
Toluene	0.123	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.113	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.829	0.0250	"	"	"	"	"	"	
Xylene (o)	0.133	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	156	10.0	mg/kg dry	1	EF42803	06/28/04	06/28/04	EPA 8015M	
Diesel Range Organics >C12-C35	984	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	1140	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 13

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
07/01/04 10:20

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom Wall Field Comp @12' bgs (4F28001-10) Soil									
Surrogate: 1-Chlorooctane		96.6 %	70-130		EF42803	06/28/04	06/28/04	EPA 8015M	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
West Wall Pt #1,2,3,4,5 (4F28001-01) Soil									
% Solids	89.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
South Wall Pt #1,2,3,4,5 (4F28001-02) Soil									
% Solids	89.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
East Wall Pt #1,2,3,4,5 (4F28001-03) Soil									
% Solids	90.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
North Wall Pt #1,2,3,4,5 (4F28001-04) Soil									
% Solids	90.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
Bottom Pt #1,2,3,4,5 @ 12' Bgs (4F28001-05) Soil									
% Solids	90.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
East Wall Field Comp (4F28001-06) Soil									
Chloride	383	20.0 mg/kg Wet		2	EF43008	06/29/04	06/29/04	SW 846 9253	
% Solids	89.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
West Wall Field Comp (4F28001-07) Soil									
Chloride	585	20.0 mg/kg Wet		2	EF43008	06/29/04	06/29/04	SW 846 9253	
% Solids	89.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
North Wall Field Comp (4F28001-08) Soil									
Chloride	436	20.0 mg/kg Wet		2	EF43008	06/29/04	06/29/04	SW 846 9253	
% Solids	89.0		%	1	EF42901	06/28/04	06/28/04	% calculation	
South Wall Field Comp (4F28001-09) Soil									
Chloride	617	20.0 mg/kg Wet		2	EF43008	06/29/04	06/29/04	SW 846 9253	
% Solids	89.0		%	1	EF42901	06/28/04	06/28/04	% calculation	

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom Water Field Comp @12' bgs (4F28001-10) Soil									
Chloride	372	20.0	mg/kg Wet	2	EF43008	06/29/04	06/29/04	SW 846 9253	
% Solids	90.0		%	1	EF42901	06/28/04	06/28/04	% calculation	

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

Organics by GC - 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 EF42803 - Solvent Extraction (GC)

Blank (EF42803-BLK1)

Prepared & Analyzed: 06/28/04

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	37.0		mg/kg	50.0		74.0	70-130			
Surrogate: 1-Chlorooctadecane	37.0		"	50.0		74.0	70-130			

LCS (EF42803-BS1)

Prepared & Analyzed: 06/28/04

Gasoline Range Organics C6-C12	411	10.0	mg/kg wet	500		82.2	75-125			
Diesel Range Organics >C12-C35	424	10.0	"	500		84.8	75-125			
Total Hydrocarbon C6-C35	835	10.0	"	1000		83.5	75-125			
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	70-130			
Surrogate: 1-Chlorooctadecane	35.6		"	50.0		71.2	70-130			

Calibration Check (EF42803-CCV1)

Prepared & Analyzed: 06/28/04

Gasoline Range Organics C6-C12	445		mg/kg	500		89.0	80-120			
Diesel Range Organics >C12-C35	485		"	500		97.0	80-120			
Total Hydrocarbon C6-C35	930		"	1000		93.0	80-120			
Surrogate: 1-Chlorooctane	51.8		"	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	36.6		"	50.0		73.2	70-130			

Matrix Spike (EF42803-MS1)

Source: 4F25003-06

Prepared & Analyzed: 06/28/04

Gasoline Range Organics C6-C12	533	10.0	mg/kg dry	538	ND	99.1	75-125			
Diesel Range Organics >C12-C35	576	10.0	"	538	ND	107	75-125			
Total Hydrocarbon C6-C35	1110	10.0	"	1080	ND	103	75-125			
Surrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	48.6		"	50.0		97.2	70-130			

Matrix Spike Dup (EF42803-MSD1)

Source: 4F25003-06

Prepared & Analyzed: 06/28/04

Gasoline Range Organics C6-C12	517	10.0	mg/kg dry	538	ND	96.1	75-125	3.05	20	
Diesel Range Organics >C12-C35	577	10.0	"	538	ND	107	75-125	0.173	20	
Total Hydrocarbon C6-C35	1090	10.0	"	1080	ND	101	75-125	1.82	20	
Surrogate: 1-Chlorooctane	55.3		mg/kg	50.0		111	70-130			
Surrogate: 1-Chlorooctadecane	48.1		"	50.0		96.2	70-130			

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

Organics by GC - 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 EF42907 - EPA 5030C (GC)

Blank (EF42907-BLK1)

Prepared & Analyzed: 06/25/04

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	85.6		ug/kg	100		85.6	80-120			
Surrogate: 4-Bromofluorobenzene	90.2		"	100		90.2	80-120			

LCS (EF42907-BS1)

Prepared: 06/25/04 Analyzed: 06/28/04

Benzene	99.8		ug/kg	100		99.8	80-120			
Toluene	103		"	100		103	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	207		"	200		104	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	101		"	100		101	80-120			
Surrogate: 4-Bromofluorobenzene	107		"	100		107	80-120			

Calibration Check (EF42907-CCV1)

Prepared: 06/25/04 Analyzed: 06/28/04

Benzene	98.0		ug/kg	100		98.0	80-120			
Toluene	103		"	100		103	80-120			
Ethylbenzene	101		"	100		101	80-120			
Xylene (p/m)	202		"	200		101	80-120			
Xylene (o)	101		"	100		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	100		"	100		100	80-120			

Matrix Spike (EF42907-MS1)

Source: 4F28001-01

Prepared: 06/25/04 Analyzed: 06/29/04

Benzene	106		ug/kg	100	ND	106	80-120			
Toluene	110		"	100	ND	110	80-120			
Ethylbenzene	109		"	100	ND	109	80-120			
Xylene (p/m)	218		"	200	ND	109	80-120			
Xylene (o)	107		"	100	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

Organics by GC - 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 EF42907 - EPA 5030C (GC)

Matrix Spike Dup (EF42907-MSD1)

Source: 4F28001-01

Prepared: 06/25/04

Analyzed: 06/29/04

Benzene	100		ug/kg	100	ND	100	80-120	5.83	20	
Toluene	104		"	100	ND	104	80-120	5.61	20	
Ethylbenzene	104		"	100	ND	104	80-120	4.69	20	
Xylene (p/m)	209		"	200	ND	104	80-120	4.69	20	
Xylene (o)	107		"	100	ND	107	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	102		"	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80-120			

Batch EG40101 - EPA 5030C (GC)

Blank (EG40101-BLK1)

Prepared & Analyzed: 06/29/04

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	91.9		ug/kg	100		91.9	80-120			
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120			

LCS (EG40101-BS1)

Prepared & Analyzed: 06/29/04

Benzene	96.3		ug/kg	100		96.3	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	103		"	100		103	80-120			
Xylene (p/m)	205		"	200		102	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	94.4		"	100		94.4	80-120			
Surrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

Organics by GC - 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 EG40101 - EPA 5030C (GC)

Calibration Check (EG40101-CCV1)

Prepared: 06/29/04 Analyzed: 06/30/04

Benzene	86.1		ug/kg	100		86.1	80-120			
Toluene	90.0		"	100		90.0	80-120			
Ethylbenzene	92.0		"	100		92.0	80-120			
Xylene (p/m)	184		"	200		92.0	80-120			
Xylene (o)	97.8		"	100		97.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	89.9		"	100		89.9	80-120			
Surrogate: 4-Bromofluorobenzene	98.3		"	100		98.3	80-120			

Matrix Spike (EG40101-MS1)

Source: 4F28001-07

Prepared: 06/29/04 Analyzed: 06/30/04

Benzene	90.7		ug/kg	100	ND	90.7	80-120			
Toluene	95.6		"	100	ND	95.6	80-120			
Ethylbenzene	98.6		"	100	ND	98.6	80-120			
Xylene (p/m)	198		"	200	ND	99.0	80-120			
Xylene (o)	100		"	100	ND	100	80-120			
Surrogate: a,a,a-Trifluorotoluene	94.6		"	100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

Matrix Spike Dup (EG40101-MSD1)

Source: 4F28001-07

Prepared: 06/29/04 Analyzed: 06/30/04

Benzene	90.0		ug/kg	100	ND	90.0	80-120	0.775	20	
Toluene	94.4		"	100	ND	94.4	80-120	1.26	20	
Ethylbenzene	97.2		"	100	ND	97.2	80-120	1.43	20	
Xylene (p/m)	195		"	200	ND	97.5	80-120	1.53	20	
Xylene (o)	101		"	100	ND	101	80-120	0.995	20	
Surrogate: a,a,a-Trifluorotoluene	92.9		"	100		92.9	80-120			
Surrogate: 4-Bromofluorobenzene	107		"	100		107	80-120			

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

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 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 EF42901 - General Preparation (Prep)

Blank (EF42901-BLK1)

Prepared & Analyzed: 06/28/04

% Solids	100	%
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Duplicate (EF42901-DUP1)

Source: 4F28001-01

Prepared & Analyzed: 06/28/04

% Solids	89.0	%	89.0	0.00	20
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Batch EF43008 - Water Extraction

Blank (EF43008-BLK1)

Prepared & Analyzed: 06/29/04

Chloride	ND	20.0 mg/kg Wet
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Matrix Spike (EF43008-MS1)

Source: 4F28001-06

Prepared & Analyzed: 06/29/04

Chloride	851	20.0 mg/kg Wet	500	383	93.6	80-120
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Matrix Spike Dup (EF43008-MSD1)

Source: 4F28001-06

Prepared & Analyzed: 06/29/04

Chloride	830	20.0 mg/kg Wet	500	383	89.4	80-120	2.50	20
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Reference (EF43008-SRM1)

Prepared & Analyzed: 06/29/04

Chloride	5210	mg/kg	5000	104	80-120
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: C-4-3
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
07/01/04 10:20

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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:

Raland K. Tuttle

Date:

7-01-04

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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If you have received this material in error, please notify us immediately at 432-563-1800.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris

Project Name:

C-4-3

Company Name Kice Operating

Project #:

Company Address:

122. W. Taylor

Project Loc:

BD

City/State/Zip: H0665 NM 88240

88240

PO #: 505

Telephone No: 505 393-9174

Fax No:

Fax No:

Sampler Signature:

Car. *W. H. H.*

[illegible]

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12500 West I-20 East
Odessa, Texas 79763

Project Manager: Kristin Farris

Project Name: C-4-3

Company Name Rice Operating

Project #:

Company Address: 122. W. Taylor

Project Loc: *BD*

City/State/Zip: Hobbs NM 88240

PO #: 505

Telephone No: 505 393-9174

Fax No:

Sampler Signature:

J. Gust

LAB # (100-150-0110)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative										Matrix					Analyze For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil	Other (Specify)	TDS (CL, SAR / EC)	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 802/B/5030	TCIP:	TOTAL:	TCLP:	Analyze For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
4FZ8001	Booth Pt #1 at 12' bgs	6/22/04	1:20	1	X									X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Special Instructions:

Composite Bottom # 1, 2, 3, 4, 5 Run BTEX ONLY

Relinquished by:

Received by:

Date	Time
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Relinquished by:

Received by ELDT 1071

Date	Time
------	------

Sample Containers Intact?
Temperature Upon Receipt
Laboratory Comments:

Are 2 or

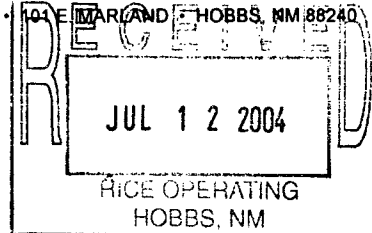


ARDINAL LABORATORIES

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

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

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



Receiving Date: 07/06/04
Reporting Date: 07/08/04
Project Number: NOT GIVEN
Project Name: C-4-3
Project Location: BD

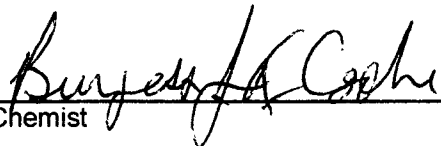
Sampling Date: 07/01/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl [*] (mg/Kg)
	07/06/04	07/06/04	07/06/04
H8879-1 REMD. BACKFILL	<10.0	414	289**
Quality Control	778	819	1000
True Value QC	800	800	1000
% Recovery	97.3	102	100
Relative Percent Difference	12.4	10.8	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.

**Matrix interference (color) observed.


Chemist

7/8/04
Date

H8879A.XLS



ARDINAL LABORATORIES

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

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

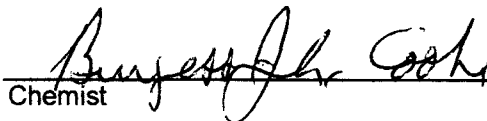
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: ROY RASCON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

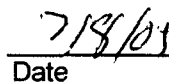
Receiving Date: 07/06/04
Reporting Date: 07/08/04
Project Number: NOT GIVEN
Project Name: C-4-3
Project Location: BD

Sampling Date: 07/01/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		07/08/04	07/08/04	07/08/04	07/08/04
H8879-1	REMD. BACKFILL	<0.005	<0.005	<0.005	<0.015
Quality Control		0.106	0.102	0.091	0.091
True Value QC		0.100	0.100	0.100	0.300
% Recovery		106	102	91.2	90.5
Relative Percent Difference		2.0	3.9	3.1	1.5

METHOD: EPA SW-846 8260


Chemist


Date

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(916) 673-7001 Fax (916) 673-7020 (505) 393-2328 Fax (505) 393-2476

† Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



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

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

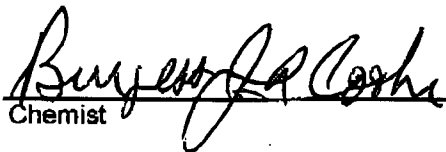
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: J. GATTS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

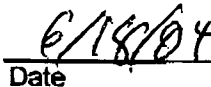
Receiving Date: 06/17/04
Reporting Date: 06/18/04
Project Number: NOT GIVEN
Project Name: C-4-3
Project Location: BD

Sampling Date: 06/17/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		06/17/04	06/17/04	06/17/04	06/17/04
H8834-1	SOURCE @ 17' BGS	0.298	0.065	4.78	5.71
Quality Control		0.102	0.098	0.093	0.273
True Value QC		0.100	0.100	0.100	0.300
% Recovery		102	98.4	93.4	90.9
Relative Percent Difference		5.6	3.1	1.2	0.8

METHOD: EPA SW-846 8260


Chemist


Date

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 analysis. 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.



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

Receiving Date: 06/17/04
Reporting Date: 06/18/04
Project Number: NOT GIVEN
Project Name: C-4-3
Project Location: BD

Sampling Date: 06/17/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		06/17/04	06/17/04	06/18/04
H8834-1	SOURCE @ 17' BGS	21.7	2640	64
Quality Control		803	808	1020
True Value QC		800	800	1000
% Recovery		100	101	102
Relative Percent Difference		3.9	1.8	1.0

*Analysis performed on a 1:4 w/v aqueous extract.

Chemist

Date _____

H8834A.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.

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ANALYSIS REQUEST

e-Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.