1R - 426-105

GENERAL CORRESPONDENCE

YEAR(S):
2007

Highlander Environmental Corp.
Midland, Texas

CERTIFIED MAIL
RETURN RECIEPT NO. 7004 2510 0001 1869 0972

IR426-105

August 3, 2007

Mr. Wayne Price
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

RE: **INVESTIGATION & CHARACTERIZATION WORK PLAN**
C-4-3 JUNCTION BOX, BD SWD SYSTEM
UNIT "C", SEC. 4, T22S, R37E

Mr. Price:

RICE Operating Company (ROC) has retained Highlander Environmental Corp. (Highlander) to address potential environmental concerns at the above-referenced site. ROC is the service provider (agent) for the Blinebry Drinkard (BD) SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. In general, project funding is not forthcoming until NMOCD approves the work plan. Therefore, your timely review of this submission is requested.

For all environmental projects, ROC will choose a path forward that:

- protects public health,
- provides the greatest net environmental benefit,
- complies with NMOCD Rules, and
- is supported by good science.

Each site shall have three submissions or a combination of:

1. This **Investigation and Characterization Plan** (ICP) is a proposal for data gathering and site characterization and assessment.

2. Upon evaluating the data and results from the ICP, a recommended remedy will be submitted in a **Corrective Action Plan** (CAP).

3. Finally, after implementing the remedy, a **closure report** with final documentation will be submitted.

BACKGROUND & PREVIOUS WORK

As part of the ROC Junction Box Upgrade Workplan the junction box was moved 25' to the south. Starting on June 16, 2004, the former junction box site was investigated vertically and horizontally with a backhoe. The Site was excavated to the approximate dimensions of 22' x 28' x 12'. TPH impact was noted to a depth of at least 12' below ground surface (bgs) at the bottom of the excavation along with on the east and north walls. To further delineate the vertical extent of the TPH impact, a trench in the center of the excavation was extended to a depth of 17' bgs. A vertical grab sample was collected at 17' bgs with analytical results exceeding the NMOCD guidelines of 1,000 mg/kg TPH. Chloride concentrations decline with depth from 617 mg/kg at a depth of 5 feet bgs on the south wall to 64 mg/kg at a depth of 17 feet bgs. No water wells were located within Section 4 which contains the site. However, according to the New Mexico State Engineers Well Reports, one water well is located in adjacent section 3 with a depth to groundwater of 85 feet bgs.

The excavated soil was blended onsite and replaced into the excavation to a depth of 12' below ground surface (bgs). On September 15, 2004, ROC submitted a Junction Box Disclosure Report to the NMOCD. A copy of the Junction Box Disclosure Report is included in Appendix A. A copy of the soil boring log and laboratory analysis are included in Appendix B.

INVESTIGATION & CHARACTERIZATION PLAN

As discussed above, existing site data suggest a potential for impairment of groundwater quality. Therefore the work elements described below are designed to assist ROC in selecting an appropriate vadose zone remedy and, if necessary, a groundwater remedy.

Task 1 Collect Regional Hydrogeologic Data

A water well inventory will be performed to encompass a ½ mile radius around the release site. The inventory will include a review of water well records on the New Mexico Office of the State Engineer W.A.T.E.R.S. database and United States Geologic Survey (USGS) website. Any water wells denoted on the USGS 7.5 minute topographic quadrangle map within the search radius will be inspected. If viable wells are located, they will be evaluated for the possible incorporation of water level measurements and groundwater monitoring.

Task 2 Evaluate Concentrations of Constituents of Concern in Soil (and Ground Water)

Highlander proposes to conduct soil borings at the former junction box site for further evaluation. The soil borings will be placed appropriately to evaluate subsurface TPH and chloride impacts, and for vertical and horizontal delineation. The soil boring samples will be field screened for chloride concentrations and hydrocarbons utilizing a photoionization detector (PID). If chloride concentrations do not decline sufficiently with depth or exceed 250 mg/kg within 10'of the suspected groundwater depth, one soil boring, in the area with the highest potential to impact groundwater, will be converted to a monitoring well.

If a monitoring well is installed, it will be constructed according to EPA and industry standards and developed either by bailing with a rig or hand bailer, or pumping with an electric submersible pump to remove fine grained sediment disturbed during drilling and to ensure

collection of representative groundwater samples. Water removed from any monitor well will be disposed of in the BD SWD System.

If a monitoring well is completed, it will be inspected for the presence of phase-separated hydrocarbons (PSH) and, if present, a sample will be collected and analyzed by gas chromatography (GC) to determine composition and origin. The well will be properly purged and sampled with a clean, dedicated, polyethylene bailer and disposable line. Groundwater samples will be submitted to a laboratory for analysis of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B, and chloride by method 300.0.

Task 3 Evaluate Flux from the Vadose Zone to Ground Water

As part of the ICP, the residual impact to vadose zone soils will be evaluated to determine what, if any remediation/isolation techniques will be required at the Site.

The information gathered from tasks 1-3 will be evaluated and utilized to design a groundwater remedy if needed. The groundwater remedy that offers the greatest environmental benefit while causing the least environmental impairment will be selected. If the evaluation demonstrates that residual constituents pose no threat to groundwater quality, a vadose zone remedy protective of groundwater will be proposed. Such recommendations and findings will be presented to NMOCD in a subsequent Corrective Action Plan (CAP). When evaluating any proposed remedy or investigative work, ROC will confirm that there is a reasonable relationship between the benefits created by the proposed remedy or assessment and the economic and social costs.

Should you have any questions, please contact me at (432) 682-4559. Your prompt review of this submission is appreciated. Thank you for your attention to this matter.

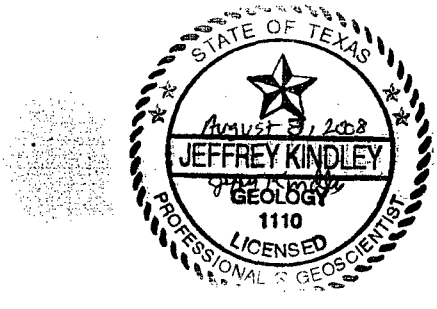
Highlander Environmental Corp.

Jeffrey Kindley

Jeffrey W. Kindley, P.G.
Senior Environmental Geologist

cc: ROC
Edward Hansen - NMOCD
Larry Johnson - NMOCD

enclosures: photos, disclosure report, laboratory analysis



Figures

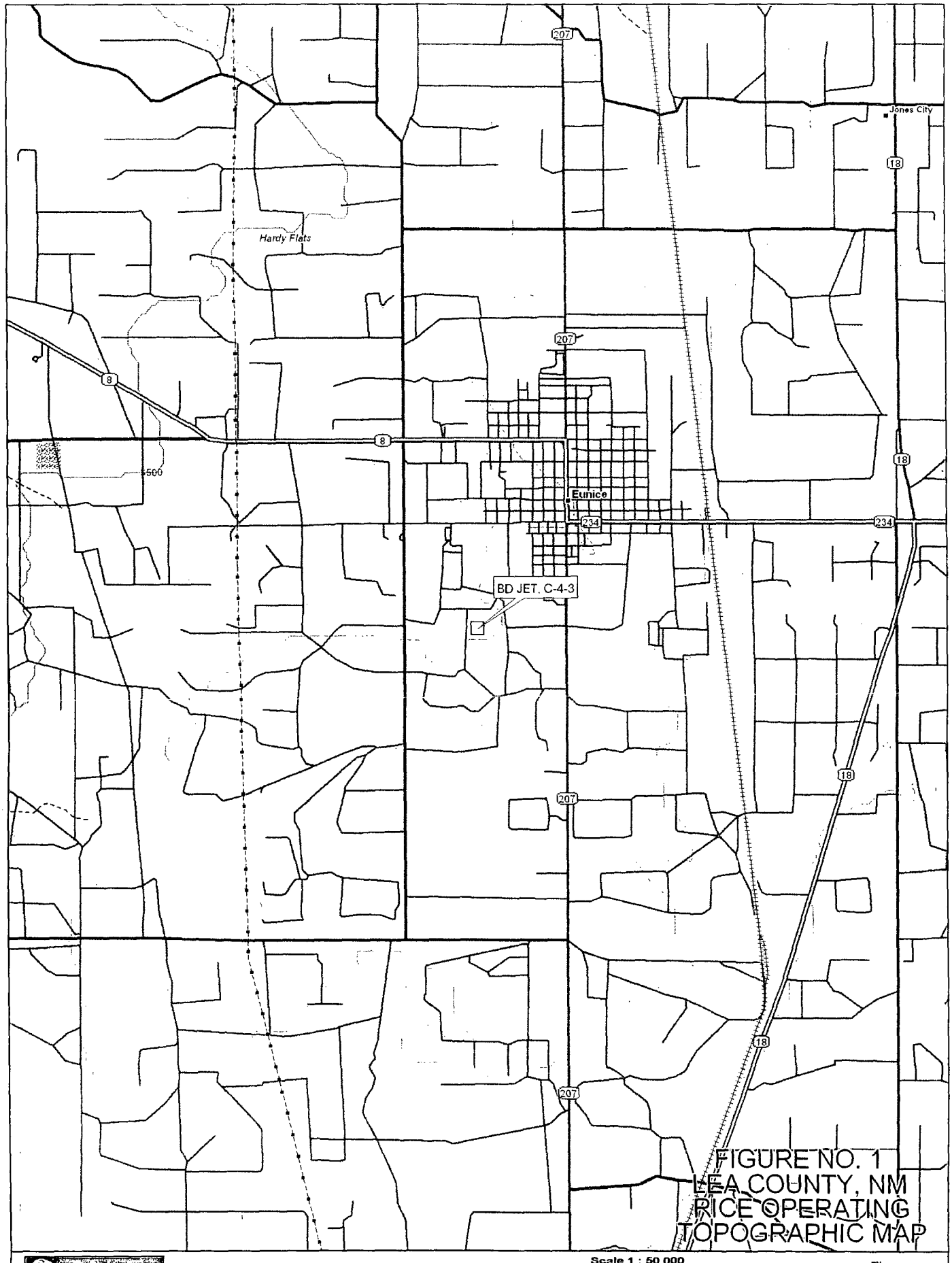


FIGURE NO. 1
LEA COUNTY, NM
RICE OPERATING
TOPOGRAPHIC MAP

DELORME

Scale 1 : 50,000
1" = 4170 ft

TN
MN
8.7°E

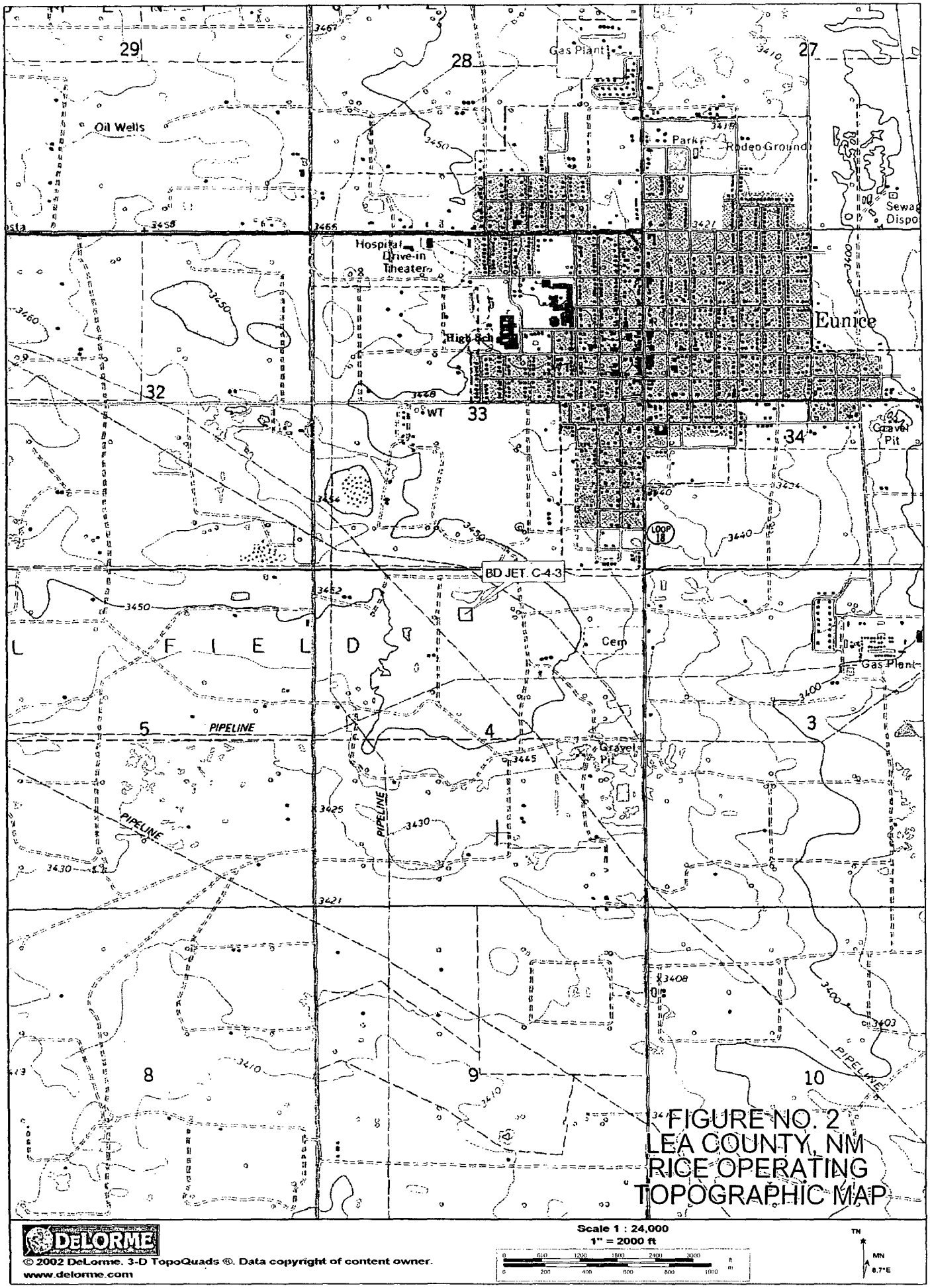
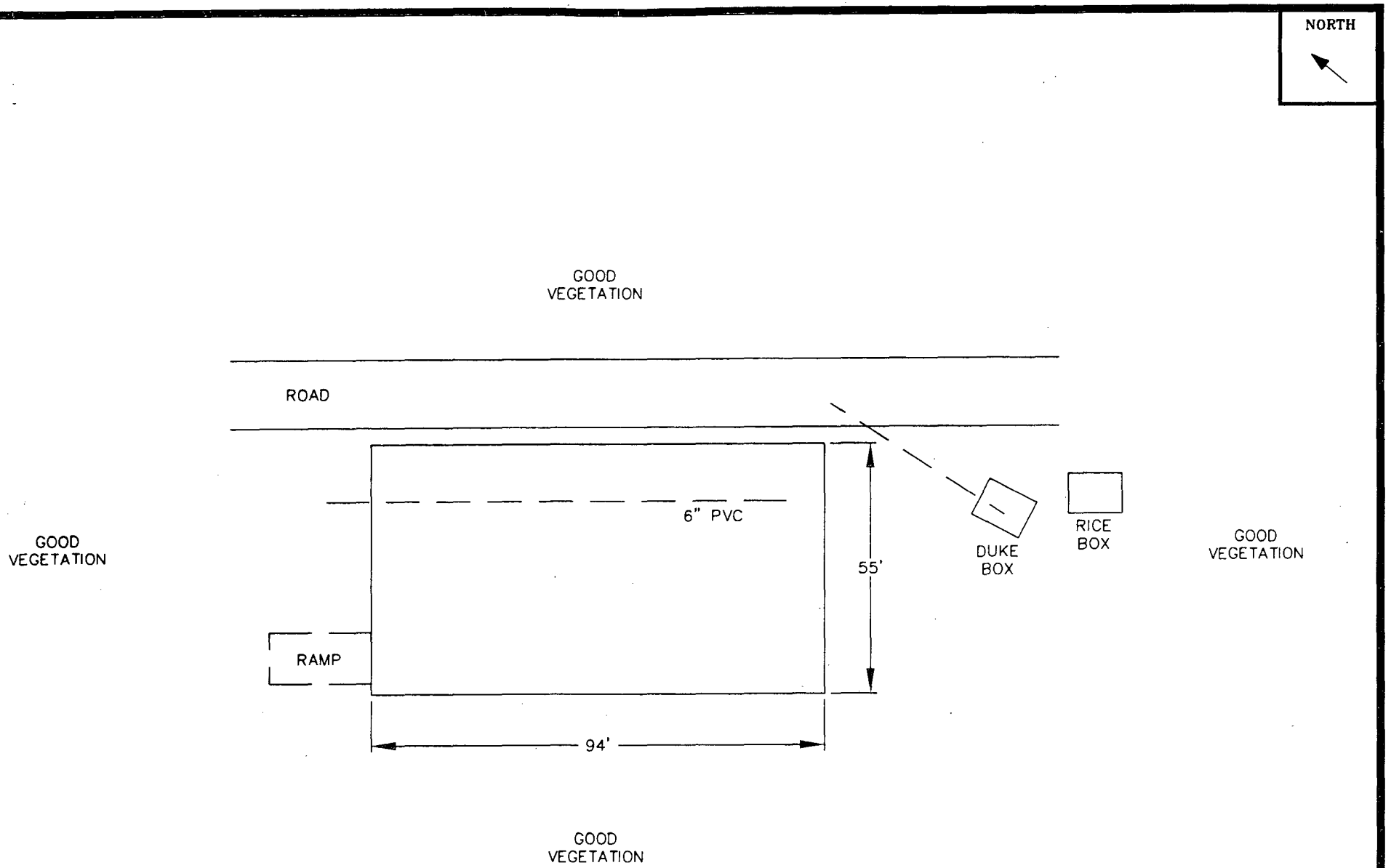


FIGURE NO. 2
LEA COUNTY, NM
RICE OPERATING
TOPOGRAPHIC MAP

Scale 1 : 24,000
1" = 2000 ft

TN
MN
8.7°E



NOT TO SCALE

FIGURE NO. 3

LEA COUNTY, NEW MEXICO

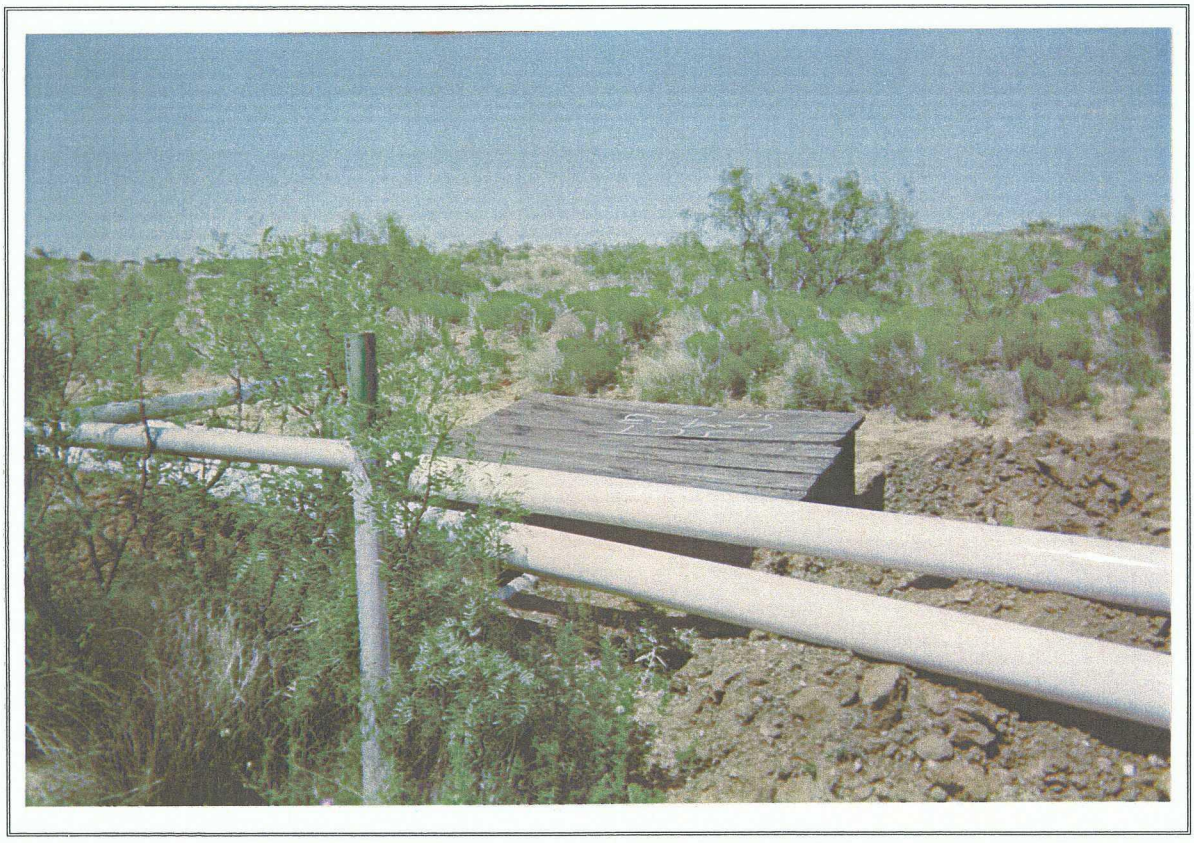
RICE OPERATING COMPANY
BD JET. C-4-3

DATE: 8/6/07
DWN. BY: RC
FILE: C:\RICE\3002 BD JET. C-4-3

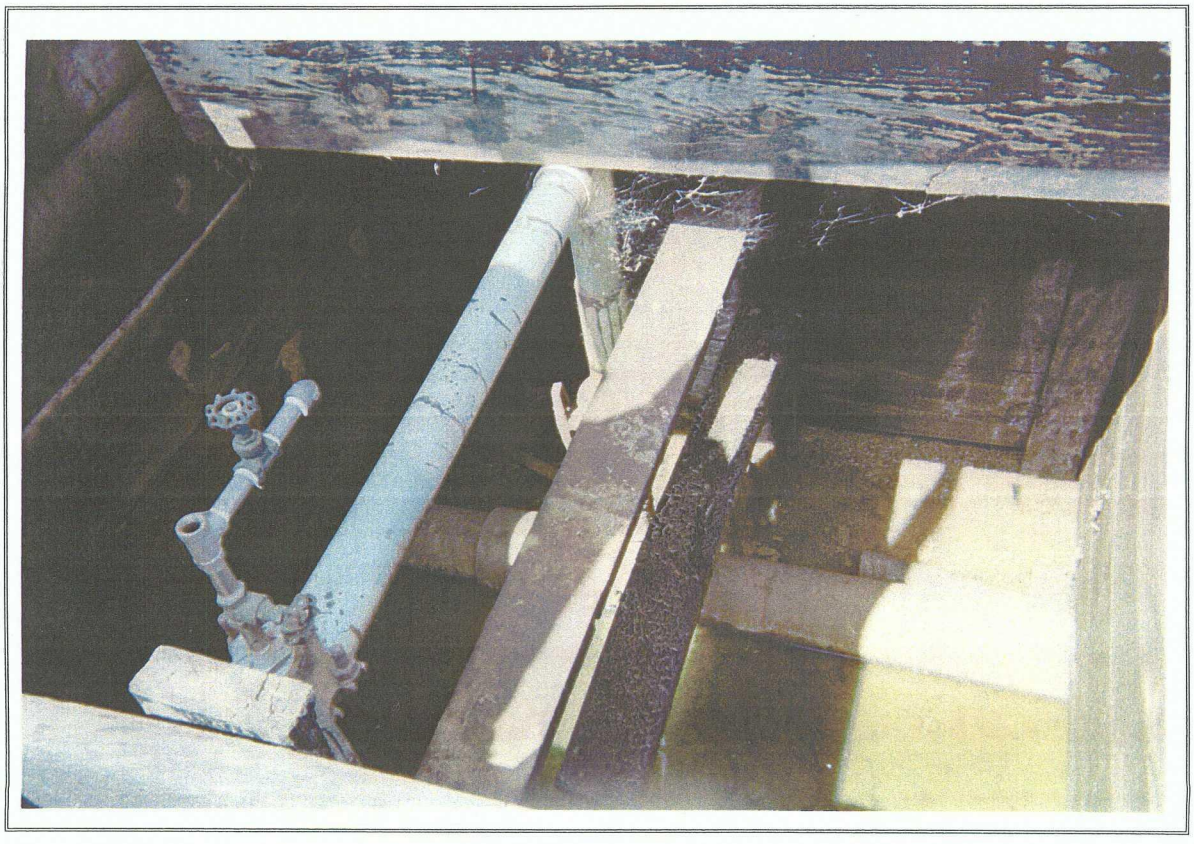
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

Photographs

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
BD Jct. C-4-3, Lea County, New Mexico



1. View of the old junction box.



2. View inside the old junction box.

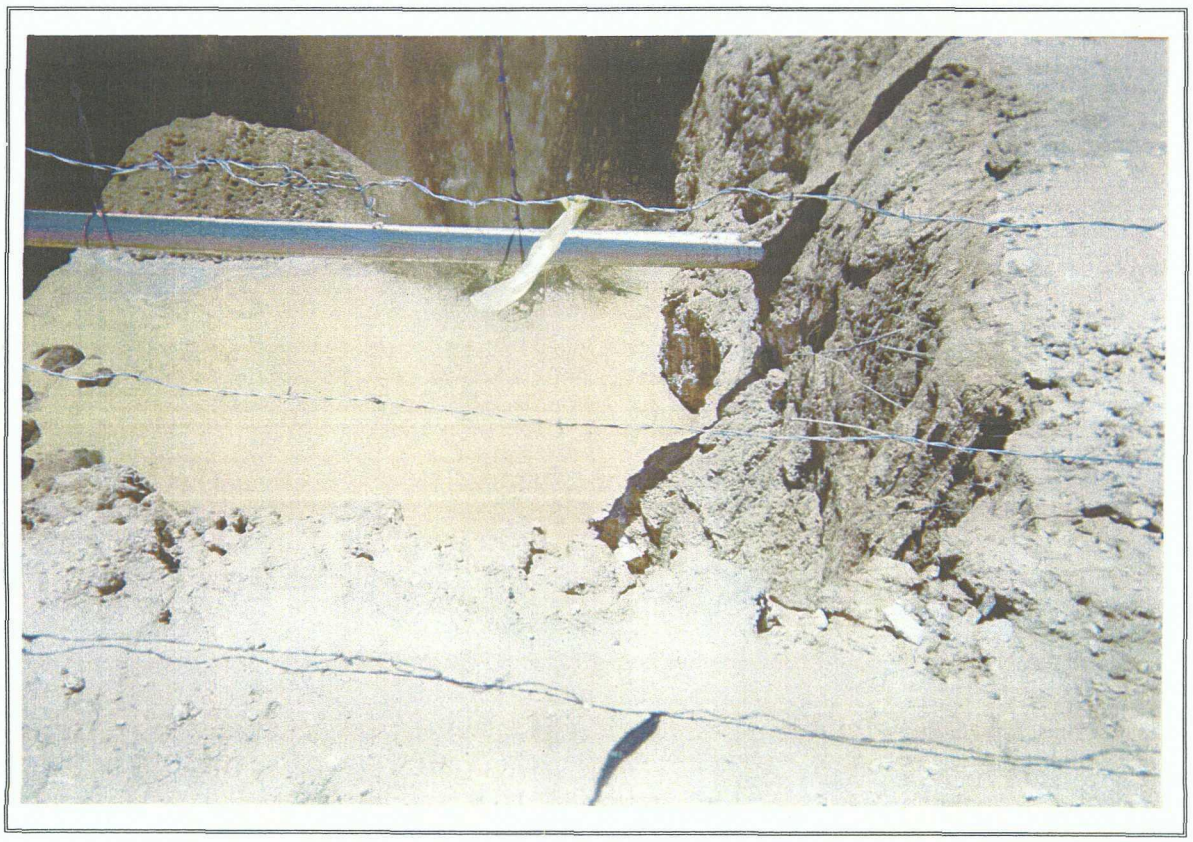
PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
BD Jct. C-4-3, Lea County, New Mexico

3. Excavation of the old junction box.

4. Excavation of the old junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
BD Jct. C-4-3, Lea County, New Mexico

5. Excavation of the old junction box.



6. Backfilling of the old junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
BD Jct. C-4-3, Lea County, New Mexico

7. Backfilling of old junction box.

8. Completed backfilling of site.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
BD Jct. C-4-3, Lea County, New Mexico

9. Completed backfilling of site..

10. Plumbing for new junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
BD Jct. C-4-3, Lea County, New Mexico

11. Plumbing for new junction box.

12. Interior view of new junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
BD Jct. C-4-3, Lea County, New Mexico

13. View of new junction box.

Appendix A

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

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

Appendix B

ENVIRONMENTAL LAB OF

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.	Project: C-4-3	Fax: (505) 397-1471
12. W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	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 LAB COMP.									
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 LAB COMP.									
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 LAB. COMP.									
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 LAB COMP.									
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*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: C-4-3	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	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 LAB COMP									
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*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: C-4-3	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	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 [redacted] 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	"	"	"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: C-4-3	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	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*			"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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.	Project: C-4-3	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	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 Hole 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	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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
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*			

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
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*			

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
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.	Project: C-4-3	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	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
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*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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
Batch EF42901 - General Preparation (Prep)										
Blank (EF42901-BLK1)				Prepared & Analyzed: 06/28/04						
% Solids	100		%							
Duplicate (EF42901-DUP1)	Source: 4F28001-01			Prepared & Analyzed: 06/28/04						
% Solids	89.0		%		89.0			0.00	20	
Batch EF43008 - Water Extraction										
Blank (EF43008-BLK1)				Prepared & Analyzed: 06/29/04						
Chloride	ND	20.0	mg/kg Wet							
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			
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	
Reference (EF43008-SRM1)				Prepared & Analyzed: 06/29/04						
Chloride	5210		mg/kg	5000		104	80-120			

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.

Environmental Lab of Texas, Inc.

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
Company Name: Rice Operating
Company Address: 122. W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505 393-9174
Fax No:
Sampler Signature: Joe Scott

Project Name: C-4-3
Project #:
Project Loc: BD
PO #: 505

LAB # (lab use only)	FIELD CODE	~~Date~~ Sampled Time	~~Time~~ Sampled DATE	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TDS / Cl / SAR / EC	TOTAL: TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030							RUSH TAT (Pre-Schedule)	Standard TAT
41728001																															
-01	West Wall Pt. #1	1:40	6/22/04	1	X									X																	
	West WALL Pt. #2	1:40	6/22/04	1	X									X																	
	West WALL Pt. #3	1:40	6/22/04	1	X									X																	
	West WALL Pt. #4	1:40	6/22/04	1	X									X																	
	West WALL Pt. #5	1:40	6/22/04	1	X									X																	
-02	South WALL Pt. #1	1:30	6/22/04	1	X									X																	
	South WALL Pt. #2	1:30	6/22/04	1	X									X																	
	South WALL Pt. #3	1:30	6/22/04	1	X									X																	
	South WALL Pt. #4	1:30	6/22/04	1	X									X																	
	South WALL Pt. #5	1:30	6/22/04	1	X									X																	

Special Instructions:
Run BTEX only
Composite West WALL #1,2,3,4,5 Run BTEX ONly; Composite South WALL 1,2,3,4,5

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 2°C

Relinquished by:	Date	Time	Received by:	Date	Time
Joe Scott	6/25/04		CD Hanson	6-25-04	5pm
CD Hanson	6/26/04	8Am	Received by ELOT: Calvin Tso	6-26-04	0804

Environmental Lab of Texas, Inc.

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
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505 393-9174
Fax No:
Sampler Signature: J Gatt

Project Name: C-4-3
Project #:
Project Loc: BD
PO #: 505

LAB # (lab use only): 4F28001

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TDS / CL / SAR / EC	TOTAL: TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-03 East WALL Pt. #1	6/22/04	1:00	1	X									X											
East WALL Pt #2	6/22/04	1:00	1	X									X											
East WALL Pt. #3	6/22/04	1:00	1	X									X											
East WALL Pt. #4	6/22/04	1:00	1	X									X											
East WALL Pt. #5	6/22/04	1:00	1	X									X											
-04 North WALL Pt. #1	6/22/04	1:10	1	X									X											
North WALL Pt. #2	6/22/04	1:10	1	X									X											
North WALL Pt. #3	6/22/04	1:10	1	X									X											
North WALL Pt. #4	6/22/04	1:10	1	X									X											
North WALL Pt. #5	6/22/04	1:10	1	X									X											

Special Instructions:
Composite East WALL #1,2,3,4,5 Run BTEX ONLY; Composite NorthWALL #1,2,3,4,5 BTEX ONLY

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 2.0°C

Relinquished by:	Date	Time	Received by:	Date	Time
J Gatt	6/25/04		CD Hay	6/25/04	5Pm
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
CD Hay	6/26/04	8am	Rec'd 2.0	6-26-04	0804

Environmental Lab of Texas, Inc.

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
Company Name: Rice Operating
Company Address: 122. W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505 393-9174 Fax No:
Sampler Signature: J Gatts

Project Name: C-4-3
Project #:
Project Loc: BD
PO #: 505

4F28001
LAB # (lab use only)

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TOTAL: TOS (CL) SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-05 Bott. Pt #1 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #2 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #3 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #4 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #5 at 12'bgs	6/22/04	1:20	1	X									X											
-06 East WALL Field Comp	6/22/04	1:05	1	X									X		X			X				X		
-07 West WALL Field Comp	6/22/04	1:40	1	X									X		X			X				X		
-08 North WALL Field Comp	6/22/04	1:10	1	X									X		X			X				X		
-09 South WALL Field Comp.	6/22/04	1:30	1	X									X		X			X				X		
-10 Bottom Field Comp. at 12'bgs	6/22/04	1:20	1	X									X		X			X				X		

Special Instructions:
Composite Bottom #1, 2, 3, 4, 5 Run BTEX only

Relinquished by:	Date	Time	Received by:	Date	Time
J. Gatts	6/25/04		CD Hanson	6/25/04	5pm
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
CD Hanson	6/26/04	8am	Kula C RC	6-26-04	0804

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Ice 2°C

CARDINAL 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)
ANALYSIS DATE		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

CARDINAL 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

7/8/04
Date

H8879BXLS

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

Company Name:	RICE Operating	BILL TO	
Project Manager:	Roy Raskon	P.O. #:	
Address:	122 W. Taylor	Company:	
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	393-9174 Fax #: 397-1471	Address:	
Project #:	Project Owner:	City:	
Project Name:	C-4-3	State: Zip:	
Project Location:	~~000000~~ 30	Phone #:	
Sampler Name:	Joe Gatts	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	Cl.	TPH 8015					
H8515-1	REMO BACKFILL	C	1			X							7/1/04	9:00	x	x	x					

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By: J. Gatts	Date: 7/6/04	Received By: (Lab Staff)	REMARKS:
	Time: 4:20		
Delivered By: (Circle One)	Sample Condition: Temp: °C / Intact? ☑ Yes ☐ No	Checked By: (Initials)	
Sampler - UPS - Bus - Other:			

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

CARDINAL 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: 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/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

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analysis performed on a 1:4 w:v aqueous extract.

Chemist

6/18/04
Date

H8834A.XLS

CARDINAL 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: 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

6/18/04
Date

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

Company Name:	Lice Operating	BILL TO	
Project Manager:	Joe Gatts	P.O. #:	
Address:	122 W. Taylor	Company:	
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	393 9174	Fax #:	Address:
Project #:		Project Owner:	City:
Project Name:	C-4-3		State: Zip:
Project Location:	BD		Phone #:
Sampler Name:	JGatts		Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	TPH 8015	Cl.					
H88374	Source at 17' bgs	G	1			X							6/17/04	1:30	X	X	X					

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By: Joe Gatts	Date: 6/17/04	Received By: (Lab Staff) Burgett	REMARKS:
	Time: 4:30		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Temp, °C:	Intact? ☐ Yes ☐ No	Checked By: (Initials)

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

ENVIRONMENTAL LAB OF

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-43

Project Number: None Given

Location: None Given

Lab Order Number: 4F28001

Report Date: 07/01/04

.ice 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.	Project: C-4-3	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris	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 LAB COMP.									
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 LAB COMP.									
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 LAB. COMP.									
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 LAB COMP.									
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*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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 LAB COMP									
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*		"	"	"	"	

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 [illegible] 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	"	"	"	"	"	"	

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*	"	"	"	"	

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	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bottom 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	

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
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*			

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
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*			

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
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*			

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
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*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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
Batch EF42901 - General Preparation (Prep)										
Blank (EF42901-BLK1)				Prepared & Analyzed: 06/28/04						
% Solids	100		%							
Duplicate (EF42901-DUP1)	Source: 4F28001-01			Prepared & Analyzed: 06/28/04						
% Solids	89.0		%		89.0			0.00	20	
Batch EF43008 - Water Extraction										
Blank (EF43008-BLK1)				Prepared & Analyzed: 06/29/04						
Chloride	ND	20.0	mg/kg Wet							
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			
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	
Reference (EF43008-SRM1)				Prepared & Analyzed: 06/29/04						
Chloride	5210		mg/kg	5000		104	80-120			

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.

Environmental Lab of Texas, Inc.

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
Company Name: Rice Operating
Company Address: 122. W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505 393-9174
Fax No:
Sampler Signature: Joe Scott

Project Name: C-4-3
Project #:
Project Loc: BD
PO #: 505

LAB # (lab use only) 4F28001	FIELD CODE	~~Date~~ Sampled TIME	~~Time~~ Sampled DATE	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-01	West Wall Pt. #1	1:40	6/22/04	1	X									X											
	West WALL Pt. #2	1:40	6/22/04	1	X									X											
	West WALL Pt. #3	1:40	6/22/04	1	X									X											
	West WALL Pt. #4	1:40	6/22/04	1	X									X											
	West WALL Pt. #5	1:40	6/22/04	1	X									X											
-02	South WALL Pt. #1	1:30	6/22/04	1	X									X											
	South WALL Pt. #2	1:30	6/22/04	1	X									X											
	South WALL Pt. #3	1:30	6/22/04	1	X									X											
	South WALL Pt. #4	1:30	6/22/04	1	X									X											
	South WALL Pt. #5	1:30	6/22/04	1	X									X											

Special Instructions: Run BTEX only
Composite West WALL #1,2,3,4,5 Run BTEX ONly; Composite South WALL 1,2,3,4,5

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 2°C

Relinquished by:	Date	Time	Received by:	Date	Time
J. Scott	6/25/04		CD Hanger	6-25-04	5pm
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
CD Hanger	6/26/04	8AM	Rebecca Tu	6-26-04	0804

Environmental Lab of Texas, Inc.

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
Company Name: Rice Operating
Company Address: 122. W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505 393-9174
Fax No:
Sampler Signature: J. Gott

Project Name: C-4-3
Project #:
Project Loc: BD
PO #: 505

Analyze For:
TCLP:
TOTAL:

4FZ8001 LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 80216/5030	RUSH TAT (Pre-Scheduled)	Standard TAT
-03	East WALL Pt. #1	6/22/04	1:00	1	X									X											
	East WALL Pt #2	6/22/04	1:00	1	X									X											
	East WALL Pt. #3	6/22/04	1:00	1	X									X											
	East WALL Pt. #4	6/22/04	1:00	1	X									X											
	East WALL Pt. #5	6/22/04	1:00	1	X									X											
-04	North WALL Pt. #1	6/22/04	1:10	1	X									X											
	North WALL Pt. #2	6/22/04	1:10	1	X									X											
	North WALL Pt. #3	6/22/04	1:10	1	X									X											
	North WALL Pt. #4	6/22/04	1:10	1	X									X											
	North WALL Pt. #5	6/22/04	1:10	1	X									X											

Special Instructions:
Composite East WALL #1,2,3,4,5 Run BTEX ONly; Composite NorthWALL #1,2,3,4,5 BTEX only

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 2.0°C

Relinquished by:	Date	Time	Received by:	Date	Time
J. Gott	6/25/04		CD Hwy	6/25/04	5 Pm
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
CD Hwy	6/26/04	8am	Rec'd 6.7.0	6-26-04	0804

Environmental Lab of Texas, Inc.

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
Company Name: Rice Operating
Company Address: 122. W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: 505 393-9174
Fax No:
Sampler Signature: J. Matt

Project Name: C-4-3
Project #:
Project Loc: BD
PO #: 505

LAB # (lab use only): 4F28001

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TOTAL: TDS (EC) SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-05 Bott. Pt #1 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #2 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #3 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #4 at 12'bgs	6/22/04	1:20	1	X									X											
Bottom Pt. #5 at 12'bgs	6/22/04	1:20	1	X									X											
-06 East WALL Field Comp	6/22/04	1:05	1	X									X		X			X				X		
-07 West WALL Field Comp	6/22/04	1:40	1	X									X		X			X				X		
-08 North WALL Field Comp	6/22/04	1:10	1	X									X		X			X				X		
-09 South WALL Field Comp.	6/22/04	1:30	1	X									X		X			X				X		
-10 Bottom Field Comp. at 12'bgs	6/22/04	1:20	1	X									X		X			X				X		

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

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 2°C

Relinquished by:	Date	Time	Received by:	Date	Time
J. Matt	6/25/04		CD Hanson	6/25/04	5pm
CD Hanson	6/24/04	8am	Received by ELOT: Kula C KC	6-26-04	0804

CARDINAL 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)
ANALYSIS DATE		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

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

		BILL TO	
Company Name:	RICE Operating	P.O. #:	
Project Manager:	Roy Raskon	Company:	
Address:	122 W. Taylor	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	393-9174 Fax #: 397-1471	City:	
Project #:	Project Owner: ——	State: Zip:	
Project Name:	C-4-3	Phone #:	
Project Location:	30	Fax #:	
Sampler Name:	Joe Gatts		

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	Cl.	TPH 8015
H8815-1	REMO BACKFILL	C	1			X							7/1/04	9:00	x	x	x

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	
	Time:		
Relinquished By:	Date: 7/6/04	Received By: (Lab Staff)	
	Time: 4:20		
Delivered By: (Circle One)	Sample Condition: Temp: °C	Intact? ☑ Yes ☐ No	Checked By: (Initials)
Sampler - UPS - Bus - Other:	Cool		

Phone Result: ☐ Yes ☐ No
Fax Result: ☐ Yes ☐ No
REMARKS:

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

CARDINAL 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: 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/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

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analysis performed on a 1:4 w:v aqueous extract.

Chemist

6/18/04
Date

H8834A.XLS

CARDINAL 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: 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

6/18/04
Date

H8834R.XLS

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page____ of____

Company Name:	Rice Operating	BILL TO	
Project Manager:	Joe Gaffs	P.O. #:	
Address:	122 W. Taylor	Company:	
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	393-9174	Fax #:	Address:
Project #:		Project Owner:	City:
Project Name:	C-4-3		State: Zip:
Project Location:	BD		Phone #:
Sampler Name:	J. Gaffs		Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	BTEX	TPH 8015	Cl.
48837	Source at 17' bgs	G	1			X							6/17/04	1:30	X	X	X

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date: 6/17/04	Received By: (Lab Staff)	REMARKS:
	Time: 4:30		
Delivered By: (Circle One)	Sample Condition: Temp. °C: Cool; Intact? ☐ Yes ☐ No	Checked By: (Initials)	
Sampler - UPS - Bus - Other:			

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