

1R - 423-08

WORKPLANS

DATE:

4-30-08



Highlander Environmental Corp.

Midland, Texas

CERTIFIED MAIL

RETURN RECEIPT NO. 7002 3150 0005 0508 7836

April 30, 2008

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
JUSTIS D-1 VENT (2)
UNIT "D", SEC. 1, T25S, R37E
LEA COUNTY, NEW MEXICO
NMOCD #1R0423-08**

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 Justis 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, starting on July 16, 2004, the junction box was moved 84 feet to the south. The former junction box site was excavated to dimensions of 30 feet by 30 feet by 12 to 16 feet deep with a backhoe. PID readings and chloride field tests were conducted at regular intervals and were elevated throughout. The Site was excavated to 12 to 16 feet below ground surface (bgs) where chlorides were 3,339 mg/Kg (12 feet) and TPH was 5991 mg/Kg (16 feet). One water well was located within Section 1 which contains the Site. According to the *Geology and Groundwater Conditions in Southern Lea County, NM (Report 6)*, the water well has a reported depth to groundwater of 60 feet bgs.

The Site was backfilled with the blended soils from the excavation and contoured to the surrounding surface. On January 24, 2005, 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 laboratory analysis is presented 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 feet of the suspected groundwater depth, a monitor well will be installed in the area with the highest potential to impact groundwater.

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 Justis 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, only a vadose zone remedy 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, P.G.
Senior Environmental Geologist

cc: ROC
Edward Hansen - NMOCD
Larry Johnson - NMOCD

enclosures: photos, disclosure report, laboratory analysis



FIGURES

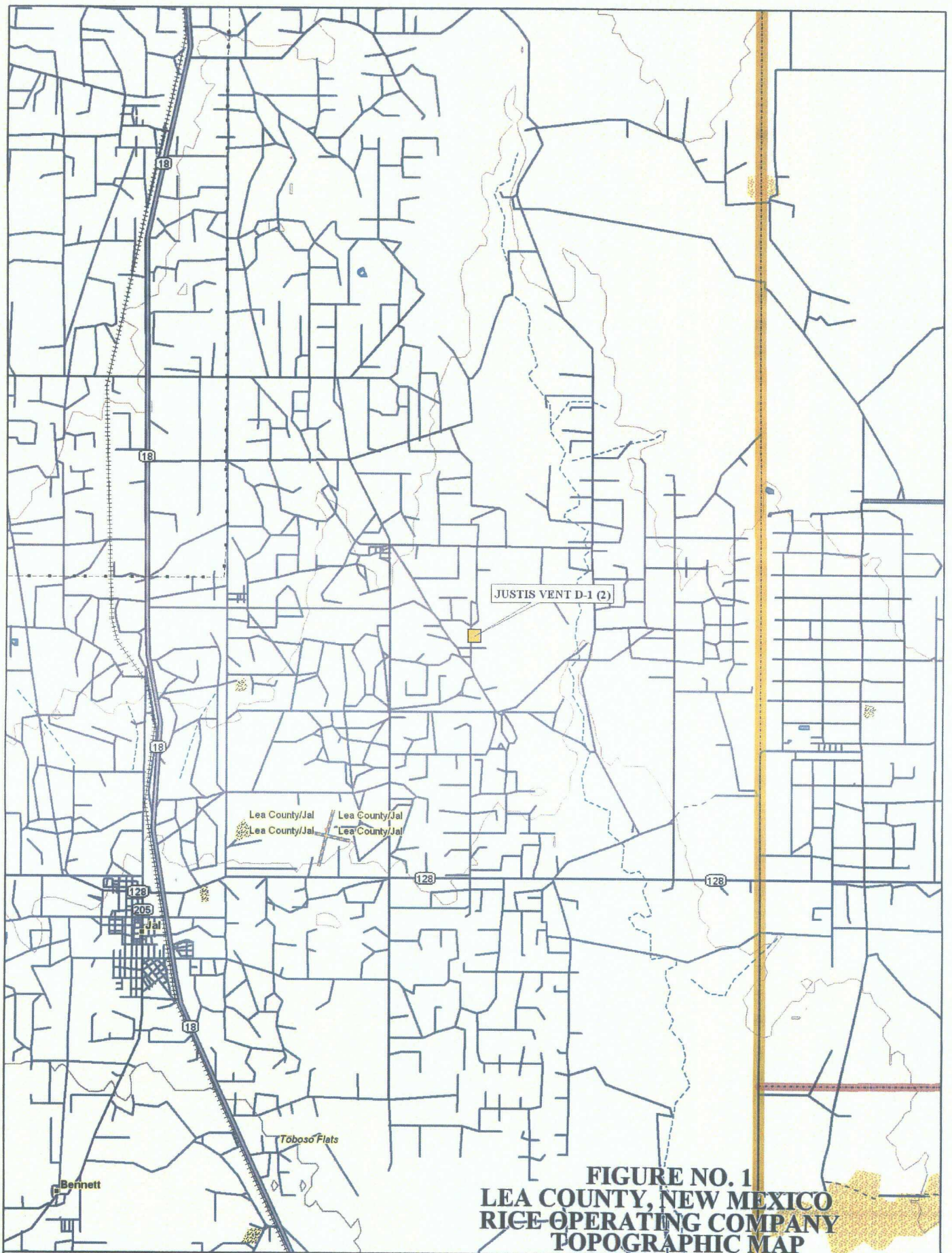
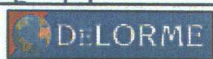
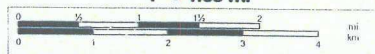
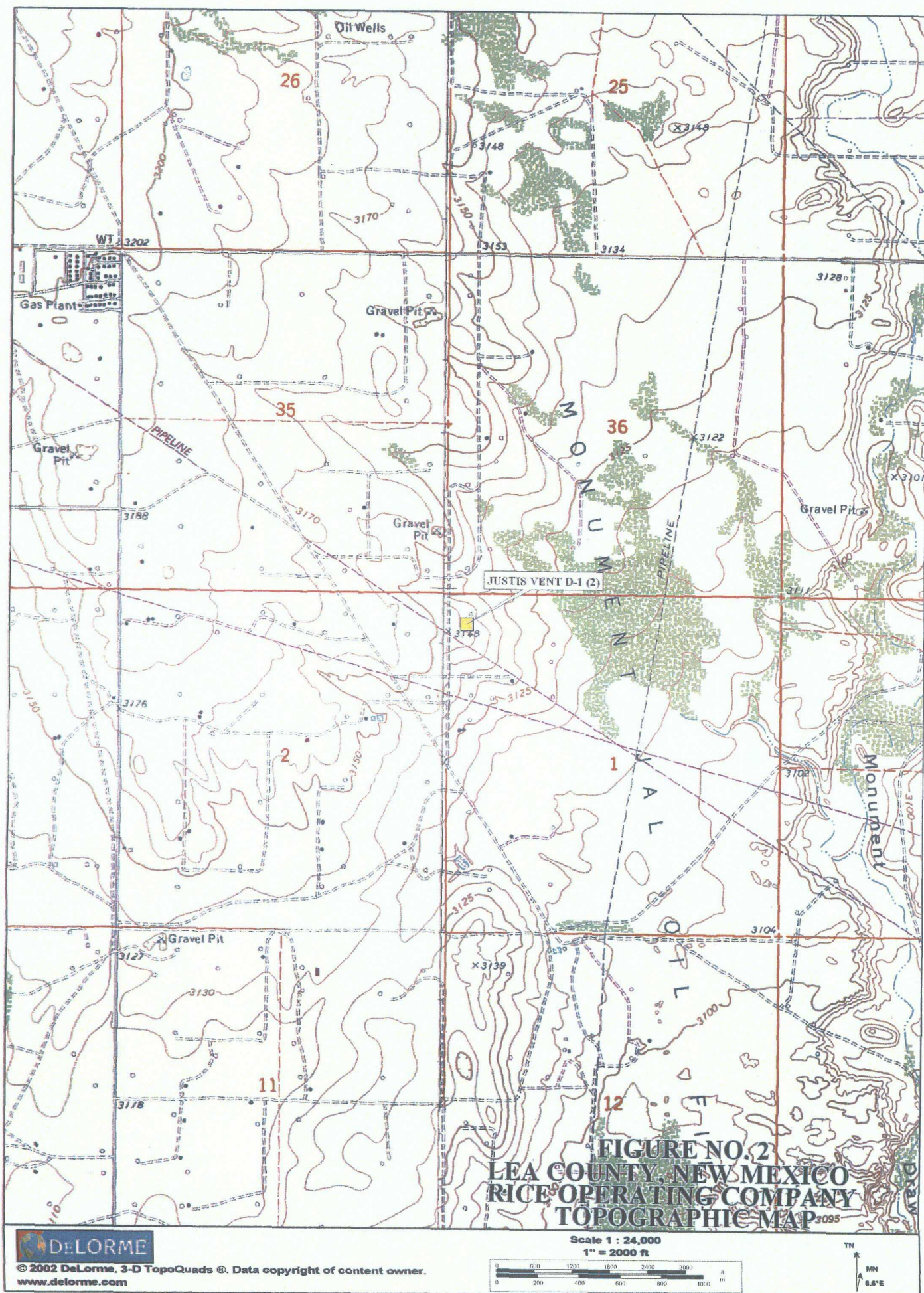


FIGURE NO. 1
LEA COUNTY, NEW MEXICO
RICE-OPERATING COMPANY
TOPOGRAPHIC MAP

Scale 1 : 100,000
1" = 1.58 mi



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Scale 1 : 24,000
1" = 2000 ft



NORTH

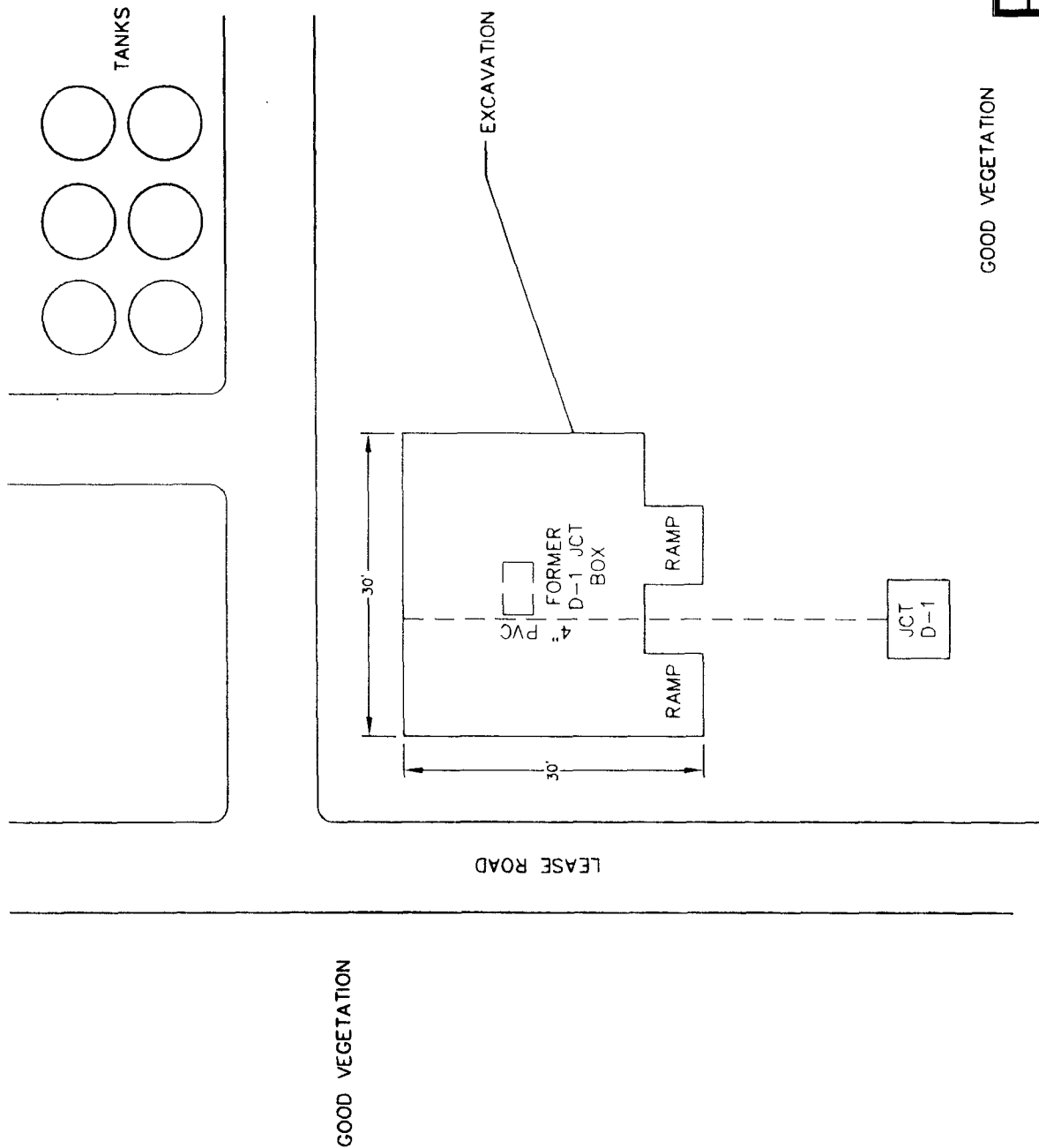


FIGURE NO. 3

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY
JUSTIS VENT D-1 (2)

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
4/21/08

DWN. BY:
RC

FILE:
LEA COUNTY, NEW MEXICO
JUSTIS VENT D-1

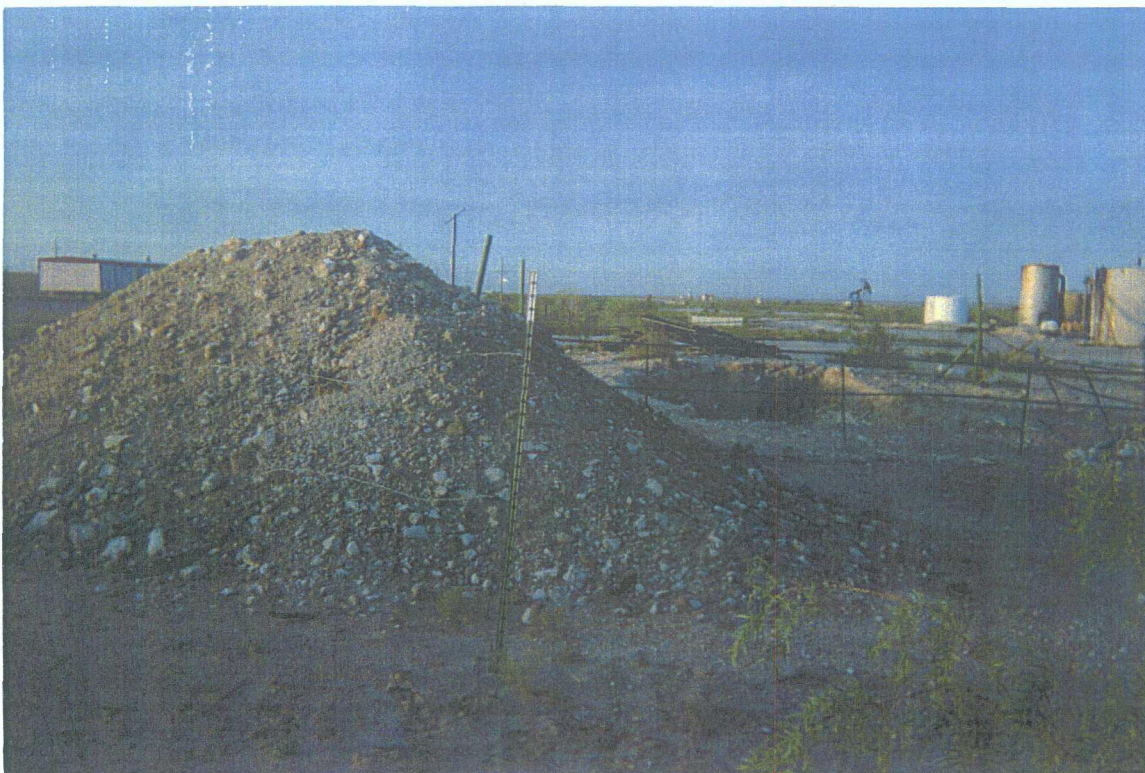
NOT TO SCALE

PHOTOGRAPHS

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
Justis D-1 Vent, Lea County, New Mexico



1. View of site prior to removal of the original junction box.



2. Excavation and stockpiled soils adjacent to former junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
Justis D-1 Vent, Lea County, New Mexico.



3. Excavation of soils around junction box.



4. Excavation of soils around junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
Justis D-1 Vent, Lea County, New Mexico



5. Excavation of soils around junction box.



6. Excavation of soils around junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
Justis D-1 Vent, Lea County, New Mexico



7. Backfilling of soils around junction box.



8. Completed backfilling of soils around junction box.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
Justis D-1 Vent, Lea County, New Mexico

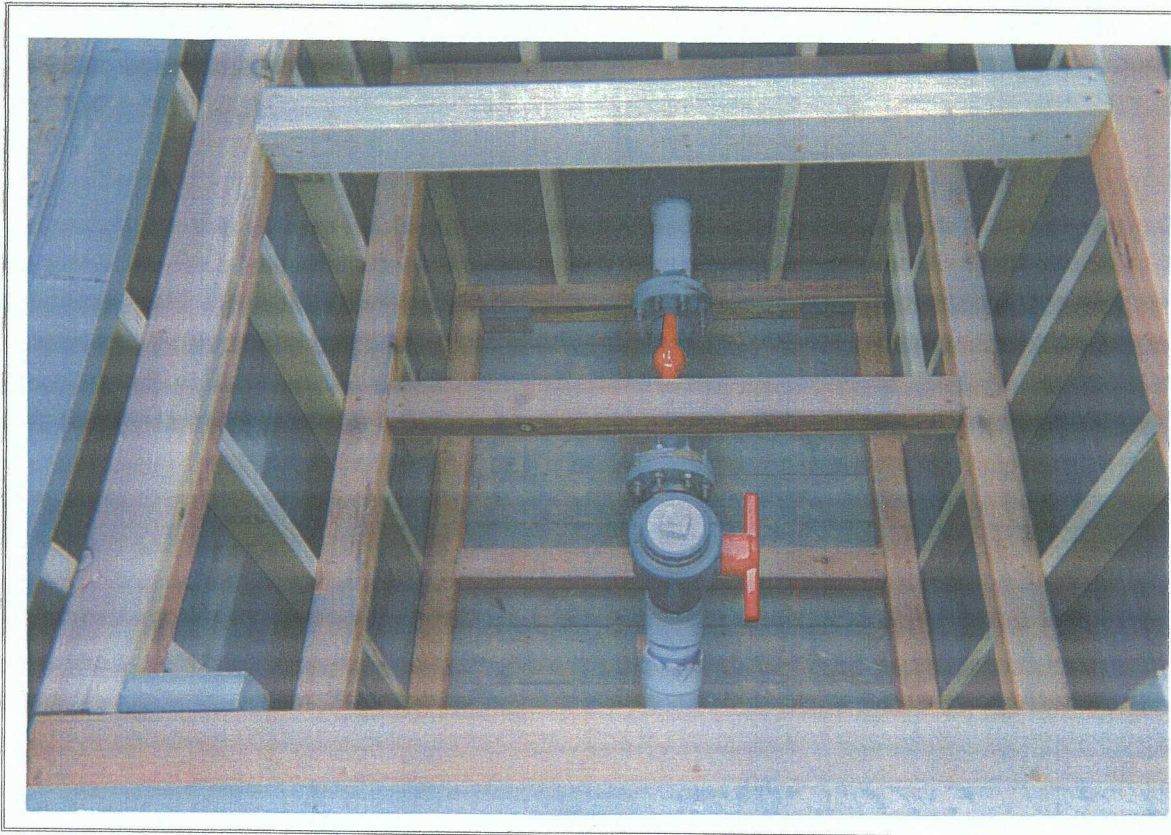


9. Concrete marker denoting center of former junction box location.

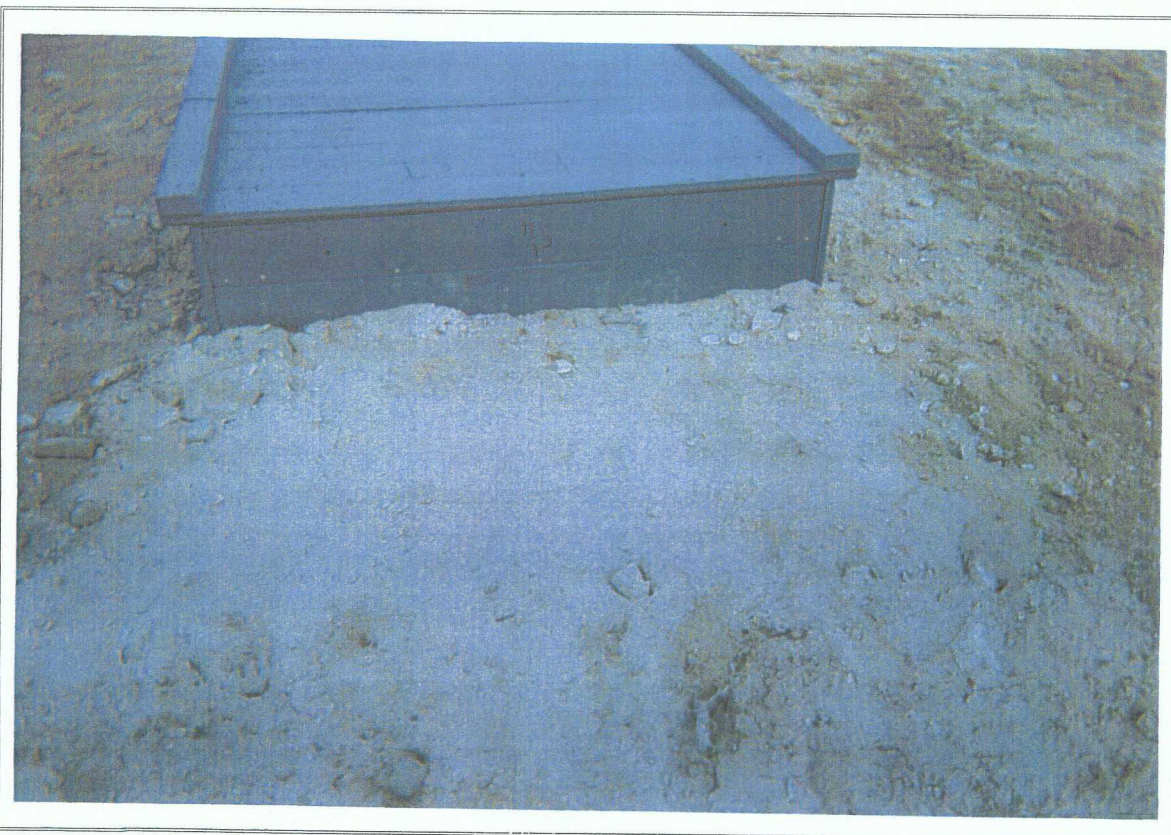


10. Construction of new junction box D-1 south of original.

PHOTOGRAPHIC DOCUMENTATION
Rice Operating Company
Justis D-1 Vent, Lea County, New Mexico



11. Construction of new junction box D-1 south of original.



12. Completed new junction box D-1.

APPENDIX A

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

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Justis	D-1 vent	D	1	25S	37E	Lea	Length	Width	Depth
							moved 80 ft south		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Joyce Marie Willis OTHER _____

Depth to Groundwater 75 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 7/16/2004 Date Completed 7/30/2004 OCD Witness No

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 7/21/2004, 7/22/2004 Sample Depth 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of excavation 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
SOURCE GRAB @ 18 ft	<0.025	0.0358	0.0751	0.402	191	5800	2130
4-WALL COMP.	<0.025	<0.025	<0.025	<0.025	<10.0	68.6	936
BOTTOM COMP.	<0.025	<0.025	<0.025	<0.025	20.1	478	3080
BACKFILL	PID = 76.0				60.5	1990	2450

General Description of Remedial Action: This junction box contained a vent. This former box site was re-plumbed straight through with a new 6-in. PVC pipeline and the box lumber was removed. A new watertight replacement box was built 80 ft south of this location. The former box site was delineated using a backhoe while PID screenings and chloride field tests were performed at regular intervals. Chloride concentrations were elevated and remained consistent with depth and breadth throughout the 30 x 30 x 12-ft-deep excavation. PID readings were also elevated directly below the former junction and to 15 ft south. Lab results confirmed elevated TPH concentrations directly below the former junction location. The excavation was backfilled with the excavated soil that was blended on site. An identification plate has been placed on the surface to the mark the former box site for future environmental considerations. NMOCD has been notified of potential groundwater impact at this site.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
vertical at junction box	8	661
	9	1315
	10	1727
	11	1775
	12	2109
	13	1888
	14	1621
	15	2655
4-wall comp.	n/a	3598
bottom comp.	12	3339
backfill	n/a	2634

ADDITIONAL EVALUATION IS MEDIUM PRIORITY

enclosures: chloride graph, photos, lab results, PID screenings, cross-section

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

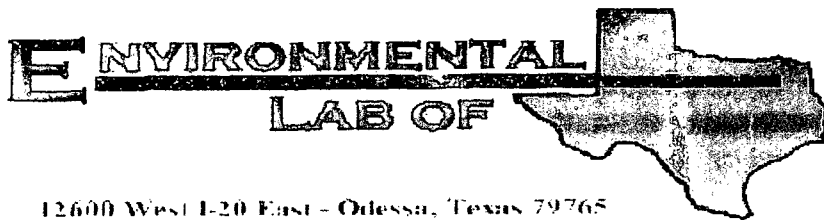
SITE SUPERVISOR Joe Gatts SIGNATURE *Joe Gatts* COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE *Kristin Farris Pope*

DATE 1/24/2005 TITLE Project Scientist

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

APPENDIX B



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Roy Rascon

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

D-1

Project: Vent ~~0-1~~ R&L

Project Number: [none]

Location: Justis

Lab Order Number: 4G26002

Report Date: 07/29/04

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

Project: Vent 0-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bott. Comp @ 12' bgs	4G26002-01	Soil	07/22/04 13:30	07/23/04 17:30
REM'D BACKFILL	4G26002-02	Soil	07/22/04 14:00	07/23/04 17:30
4 Wall Comp	4G26002-03	Soil	07/22/04 13:45	07/23/04 17:30
Source @ 16' bgs	4G26002-04	Soil	07/21/04 12:00	07/23/04 17:30

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

Project: Vent 0-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bott. Comp @ 12' bgs (4G26002-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG42810	07/27/04	07/28/04	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		82.7 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.9 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	20.1	10.0	mg/kg dry	1	EG42611	07/26/04	07/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	478	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	498	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.8 %	70-130		"	"	"	"	
REMD BACKFILL (4G26002-02) Soil									
Gasoline Range Organics C6-C12	60.5	10.0	mg/kg dry	1	EG42611	07/26/04	07/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	1990	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	2050	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		78.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		73.6 %	70-130		"	"	"	"	
4 Wall Comp (4G26002-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG42810	07/27/04	07/28/04	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		84.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42611	07/26/04	07/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	68.6	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	68.6	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.0 %	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: Vent 0-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Source @ 16' bgs (4G26002-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG42810	07/27/04	07/28/04	EPA 8021B	
Toluene	0.0358	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.0751	0.0250	"	"	"	"	"	"	
Xylene (p/m)	0.323	0.0250	"	"	"	"	"	"	
Xylene (o)	0.0790	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		83.7 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	191	10.0	mg/kg dry	1	EG42611	07/26/04	07/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	5800	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	5990	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		71.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	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.

Page 3 of 10

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

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

Project: Vent 0-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bott. Comp @ 12' bgs (4G26002-01) Soil									
Chloride	3080	20.0	mg/kg Wet	2	EG42701	07/26/04	07/26/04	SW 846 9253	
% Solids	91.0		%	1	EG42706	07/26/04	07/26/04	% calculation	
REMD BACKFILL (4G26002-02) Soil									
Chloride	2450	20.0	mg/kg Wet	2	EG42701	07/26/04	07/26/04	SW 846 9253	
% Solids	94.0		%	1	EG42706	07/26/04	07/26/04	% calculation	
4 Wall Comp (4G26002-03) Soil									
Chloride	936	20.0	mg/kg Wet	2	EG42701	07/26/04	07/26/04	SW 846 9253	
% Solids	70.0		%	1	EG42706	07/26/04	07/26/04	% calculation	
Source @ 16' bgs (4G26002-04) Soil									
Chloride	2130	20.0	mg/kg Wet	2	EG42701	07/26/04	07/26/04	SW 846 9253	
% Solids	85.0		%	1	EG42706	07/26/04	07/26/04	% calculation	

Environmental Lab of Texas

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

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

Project: Vent 0-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

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 EG42611 - Solvent Extraction (GC)										
Blank (EG42611-BLK1)			Prepared & Analyzed: 07/26/04							
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	40.7		mg/kg	50.0		81.4	70-130			
Surrogate: 1-Chlorooctadecane	38.4		"	50.0		76.8	70-130			
LCS (EG42611-BS1)			Prepared & Analyzed: 07/26/04							
Gasoline Range Organics C6-C12	429		mg/kg	500		85.8	75-125			
Diesel Range Organics >C12-C35	455		"	500		91.0	75-125			
Total Hydrocarbon C6-C35	884		"	1000		88.4	75-125			
Surrogate: 1-Chlorooctane	53.5		"	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	36.9		"	50.0		73.8	70-130			
LCS Dup (EG42611-BSD1)			Prepared & Analyzed: 07/26/04							
Gasoline Range Organics C6-C12	425		mg/kg	500		85.0	75-125	0.937	20	
Diesel Range Organics >C12-C35	463		"	500		92.6	75-125	1.74	20	
Total Hydrocarbon C6-C35	888		"	1000		88.8	75-125	0.451	20	
Surrogate: 1-Chlorooctane	53.2		"	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	38.3		"	50.0		76.6	70-130			
Calibration Check (EG42611-CCV1)			Prepared & Analyzed: 07/26/04							
Gasoline Range Organics C6-C12	413		mg/kg	500		82.6	80-120			
Diesel Range Organics >C12-C35	493		"	500		98.6	80-120			
Total Hydrocarbon C6-C35	966		"	1000		96.6	80-120			
Surrogate: 1-Chlorooctane	50.4		"	50.0		101	70-130			
Surrogate: 1-Chlorooctadecane	37.1		"	50.0		74.2	70-130			

Environmental Lab of Texas

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Page 5 of 10

Rice Operating Co
122 W. Taylor
Hobbs NM, 88240

Project: Vent 9-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

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 EG42810 - EPA 5030C (GC)

Blank (EG42810-BLK1)

Prepared & Analyzed: 07/27/04

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	82.8		ug/kg	100		82.8	80-120			
Surrogate: 4-Bromofluorobenzene	91.3		"	100		91.3	80-120			

LCS (EG42810-BL1)

Prepared & Analyzed: 07/27/04

Benzene	115		ug/kg	100		115	80-120			
Toluene	106		"	100		106	80-120			
Ethylbenzene	96.7		"	100		96.7	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	99.3		"	100		99.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	96.7		"	100		96.7	80-120			
Surrogate: 4-Bromofluorobenzene	106		"	100		106	80-120			

Calibration Check (EG42810-CCV1)

Prepared: 07/27/04 Analyzed: 07/28/04

Benzene	108		ug/kg	100		108	80-120			
Toluene	99.8		"	100		99.8	80-120			
Ethylbenzene	96.2		"	100		96.2	80-120			
Xylene (p/m)	206		"	200		103	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	98.0		"	100		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	103		"	100		103	80-120			

Matrix Spike (EG42810-MS1)

Source: 4G26002-03

Prepared: 07/27/04 Analyzed: 07/28/04

Benzene	110		ug/kg	100	ND	110	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	99.3		"	100	ND	99.3	80-120			
Xylene (p/m)	211		"	200	ND	106	80-120			
Xylene (o)	106		"	100	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	98.4		"	100		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			

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Rice Operating Co.
122 W. Taylor
Hobbs NM 88240

Project: Vent G-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471
Reported:
07/29/04 13:44

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 EG42810 - EPA 5030C (GC)										
Matrix Spike Dup (EG42810-MSD1)		Source: 4G26002-03			Prepared: 07/27/04 Analyzed: 07/28/04					
Benzene	107		ug/kg	100	ND	107	80-120	2.76	20	
Toluene	97.8		"	100	ND	97.8	80-120	3.22	20	
Ethylbenzene	96.3		"	100	ND	96.3	80-120	3.07	20	
Xylene (p/m)	206		"	200	ND	103	80-120	2.87	20	
Xylene (o)	104		"	100	ND	104	80-120	1.90	20	
Surrogate: o,o,o-Trifluorotoluene	93.1		"	100		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	100		"	100		100	80-120			

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Rice Operating Co.
122 W Taylor
Hobbs NM, 88240

Project: Vent 0-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

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 EG42701 - Water Extraction										
Blank (EG42701-BLKI)				Prepared & Analyzed: 07/26/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EG42701-MSI)				Source: 4G22008-01 Prepared: 07/23/04 Analyzed: 07/26/04						
Chloride	532	20.0	mg/kg Wet	500	0.00	106	80-120			
Matrix Spike Dup (EG42701-MSD1)				Source: 4G22008-01 Prepared: 07/23/04 Analyzed: 07/26/04						
Chloride	510	20.0	mg/kg Wet	500	0.00	102	80-120	4.22	20	
Reference (EG42701-SRMI)				Prepared & Analyzed: 07/26/04						
Chloride	4940		mg/kg	5000		98.8	80-120			
Batch EG42706 - General Preparation (Prep)										
Blank (EG42706-BLKI)				Prepared & Analyzed: 07/26/04						
% Solids	100		%							
Duplicate (EG42706-DUPI)				Source: 4G23016-01 Prepared & Analyzed: 07/26/04						
% Solids	97.0		%		97.0			0.00	20	

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

Project: Vent 0-1
Project Number: [none]
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
07/29/04 13:44

Notes and Definitions

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

Report Approved By: _____

Date: _____

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
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