1R - 426-1

REPORTS

DATE:

8/25/2005

RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
BD	M-14	M	14	21 S	37 E	Lea	no box--junction eliminated		

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

Depth to Groundwater none feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 4/15/2003 Date Completed 5/10/2005 OCD Witness No

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

Soil Disposed 400 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: **Sample Date** 4/24/2003, soil bore on 5/10/2005 **Sample Depth** 12, 55-60, 61 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	Chloride mg/kg
4-WALL COMP.	<0.025	<0.025	<0.025	<0.025	16.2	621	5810
BOTTOM COMP.	<0.025	<0.025	<0.025	<0.025	<10.0	40	7020
BORE @ 55-60 ft	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	8900
BORE @ 60-61 ft	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	4710

General Description of Remedial Action:

The site was delineated using a backhoe and chloride concentrations did not exhibit a decline with depth. The excavated soil from the 30 x 30 x 12-ft-deep excavation was disposed of at a permitted facility and the landowner's clean soil was used to backfill on 6/26/2003. At the landowner's request, no liner or barrier was installed. The disturbed surface was seeded with a blend of native vegetation. NMOCD was notified of potential groundwater impact at this site on 4/30/2003. The junction box report detailing these activities was delivered to NMOCD with the 2003 yearly junction box reports. This site was deemed a major project and ROC contracted Arcadis, G &M of Midland, Texas to investigate potential environmental concerns at this site. A work plan for this site was submitted to NMOCD on 4/1/2004 and approval was granted on 11/18/2004. On 5/10/2005, a rig was mobilized at the site and a soil bore was initiated to delineate the extent of impact. The bore was advanced to a depth of 61 ft where Triassic red shale was encountered. No groundwater was present below this site, therefore, allowing the constituents of concern to remain in place does not pose a threat to groundwater. Closure of this regulatory file is requested.

cc: bore log, photos, lab analysis

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

DATE 8/25/2005 PRINTED NAME Kristin Farris Pope

SIGNATURE Kristin Farris Pope TITLE Project Scientist

Kristin Farris Pope

From: "Price, Wayne, EMNRD" <wayne.price@state.nm.us>
To: "Hall, Sharon E." <Shall@arcadis-us.com>
Cc: <kpriceswd@valornet.com>; "Sheeley, Paul, EMNRD" <paul.sheeley@state.nm.us>
Sent: Friday, September 02, 2005 1:04 PM
Subject: RE: Closure request ROC M-14

OCD hereby approves closure of the ROC M-14 site OCD case # 1R0426-1.

Please be advised that NMOCD approval of this plan does not relieve (ROC) of responsibility should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (ROC) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Wayne Price-Senior Environmental Engr.
Oil Conservation Division
1220 S. Saint Francis
Santa Fe, NM 87505
E-mail wayne.price@state.nm.us
Tele: 505-476-3487
Fax: 505-4763462

From: Hall, Sharon E. [mailto:Shall@arcadis-us.com]
Sent: Mon 8/29/2005 9:41 AM
To: Hall, Sharon E.; Price, Wayne, EMNRD
Cc: kpriceswd@valornet.com
Subject: RE: Closure request ROC M-14

Well- as Kristin points out, the attachment would be handy! Here you go

<<M14 Closure Request.pdf>>

From: Hall, Sharon E.
Sent: Monday, August 29, 2005 8:34 AM
To: Wayne Price (wayne.price@state.nm.us)
Cc: Kristin Farris Pope (kpriceswd@valornet.com)
Subject: Closure request ROC M-14

Wayne, on behalf of Rice Operating company I am respectfully submitting this request for closure for the M-14 site. No groundwater was encountered at the site. A hard copy was sent to you on Friday. Regards, Sharon Hall

Sharon E. Hall
ARCADIS
Site Evaluation Department Manager
1004 N. Big Spring Street, Suite 300
Midland, Texas 79701
432 687-5400

CADIS

BORING LOG

BORING NO.

BD M-14

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432 687-5400 Fax: 432 687-5401

JECT NUMBER: MT000834.0001
NT NAME: Rice Operating Company
JECT NAME: Junction Boxes Investigation
LOCATION: Lea County, New Mexico
QUE NUMBER: 31-014-00721 FILE NAME: BD M-14.dat

DRILLING CO: White Drilling Company
DRILLING METHOD: Rotary/Air
DRILLER: Bo Atkins
LOGGER: R. Lang
DATE BEGUN: 5/10/05 DATE COMPLETED: 5/10/05

SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	PID READING	CHLORIDES	LITHOLOGY	DESCRIPTION
	Shovel				66	290		SAND: GLEY 2 6/1 10 BG greenish gray, medium grained to fine grained SAND, subangular, well sorted, loose to very soft, odor.
	Shovel				33	344		
	Shovel				15.6	1139		SANDSTONE: 5 YR reddish yellow, fine grained, subangular, well sorted, very soft, CALICHE nodules, soft to hard.
	Shovel				20.5	4233		
	Shovel				5.5	1998		SAND: 5 YR 7/4 pink, fine grained, subangular, well sorted, loose, CALICHE nodules, rare SANDSTONE 5 YR 7/4 fine grained, subangular, well sorted, hard interbeds, slightly moist.
	Shovel				7.4	2528		

RCADIS

BORING LOG

BORING NO.

BD M-14

1004 N. Big Spring St. Suite 300, Midland, TX 79701-3383 Tel: 432 687-5400 Fax: 432 687-5401

:OJECT NUMBER: MT000834.0001
IENT NAME: Rice Operating Company
:OJECT NAME: Junction Boxes Investigation
'E LOCATION: Lea County, New Mexico
IIQUE NUMBER: 31-014-00721 FILE NAME: BD M-14.dat

DRILLING CO: White Drilling Company
DRILLING METHOD: Rotary/Air
DRILLER: Bo Atkins
LOGGER: R. Lang
DATE BEGUN: 5/10/05 DATE COMPLETED: 5/10/05

SAMPLED	SAMPLING METHOD	ANALYZED	MOISTURE	RECOVERY	PID READING	CHLORIDES	LITHOLOGY	DESCRIPTION
	Shovel				5.9	1919		
	Shovel				2.5	3640		
	Shovel				5.6	5012		SAND: 5 YR 7/4 pink, fine grained, loose, well sorted, became moist at -49.0', some thin CLAY interbeds.
	Shovel				6.2	7658		
	Rock Core				4.5	6692		
	Shovel				3.8	5696		
	Shovel				4.3	8863		SHALE: 10 R 5/4 weak red, finely to coarsely bedded, SILTY, rare nodules, GLEY 1 8/1 light greenish gray, dry.
	Rock Core				6.9	3642		

BD Jct. 111-14

Final Report

BD jct. M-14

delineation soil bore May 10, 2005

former junction box site marked with flagged stake (before drilling)

BD M-14 soil bore

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: MT000834.0001

Project Number: MT000834.0001

Location: Rice Operating

Lab Order Number: 5E11007

Report Date: 05/17/05

ARCADIS	Project: MT000834.0001	Fax: (432) 687-5401
1004 N. Big Spring Street	Project Number: MT000834.0001	**Reported:**
Midland TX, 79701	Project Manager: Sharon Hall	05/17/05 08:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BDK- 27 North (40'-40.5')	5E11007-01	Soil	05/09/05 15:45	05/11/05 15:30
BDK 27-1 (25'-30')	5E11007-02	Soil	05/10/05 09:37	05/11/05 15:30
BD M14 (60'-61')	5E11007-03	Soil	05/10/05 16:36	05/11/05 15:30
BD M14 (55'-60')	5E11007-04	Soil	05/10/05 16:30	05/11/05 15:30

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

ARCADIS	Project: MT000834.0001	Fax: (432) 687-5401
1004 N. Big Spring Street	Project Number: MT000834.0001	**Reported:**
Midland TX, 79701	Project Manager: Sharon Hall	05/17/05 08:05

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BDK- 27 North (40'-40.5') (5E11007-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51204	05/12/05	05/12/05	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		*107 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51202	05/12/05	05/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*84.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.0 %*	*70-130*		"	"	"	"	
BDK 27-1 (25'-30') (5E11007-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51204	05/12/05	05/12/05	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		*85.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51202	05/12/05	05/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*80.2 %*	*70-130*		"	"	"	"	
BD M14 (60'-61') (5E11007-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51204	05/12/05	05/12/05	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		*91.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51202	05/12/05	05/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

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

ARCADIS	Project: MT000834.0001	Fax: (432) 687-5401
1004 N. Big Spring Street	Project Number: MT000834.0001	**Reported:**
Midland TX, 79701	Project Manager: Sharon Hall	05/17/05 08:05

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BD M14 (60'-61') (5E11007-03) Soil									
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		*EE51202*	*05/12/05*	*05/12/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*76.8 %*	*70-130*		"	"	"	"	
BD M14 (55'-60') (5E11007-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51204	05/12/05	05/12/05	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		*87.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51202	05/12/05	05/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.0 %*	*70-130*		"	"	"	"	

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

ARCADIS	Project: MT000834.0001	Fax: (432) 687-5401
1004 N. Big Spring Street	Project Number: MT000834.0001	**Reported:**
Midland TX, 79701	Project Manager: Sharon Hall	05/17/05 08:05

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BDK- 27 North (40'-40.5') (5E11007-01) Soil									
Chloride	**486**	10.0	mg/kg	20	EE51403	05/13/05	05/13/05	EPA 300.0	
% Moisture	**11.2**	0.1	%	1	EE51203	05/12/05	05/13/05	% calculation	
BDK 27-1 (25'-30') (5E11007-02) Soil									
Chloride	**1360**	50.0	mg/kg	100	EE51403	05/13/05	05/13/05	EPA 300.0	
% Moisture	**6.7**	0.1	%	1	EE51203	05/12/05	05/13/05	% calculation	
BD M14 (60'-61') (5E11007-03) Soil									
Chloride	**4710**	100	mg/kg	200	EE51403	05/13/05	05/13/05	EPA 300.0	
% Moisture	**5.3**	0.1	%	1	EE51203	05/12/05	05/13/05	% calculation	
BD M14 (55'-60') (5E11007-04) Soil									
Chloride	**8900**	1000	mg/kg	2000	EE51403	05/13/05	05/13/05	EPA 300.0	
% Moisture	**5.9**	0.1	%	1	EE51203	05/12/05	05/13/05	% 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 EE51202 - Solvent Extraction (GC)										
Blank (EE51202-BLK1)				Prepared & Analyzed: 05/12/05						
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	*36.6*		*mg/kg*	*50.0*		*73.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.9*		*"*	*50.0*		*81.8*	*70-130*			
LCS (EE51202-BS1)				Prepared & Analyzed: 05/12/05						
Gasoline Range Organics C6-C12	430	10.0	mg/kg wet	500		86.0	75-125			
Diesel Range Organics >C12-C35	474	10.0	"	500		94.8	75-125			
Total Hydrocarbon C6-C35	904	10.0	"	1000		90.4	75-125			
Surrogate: 1-Chlorooctane	*36.5*		*mg/kg*	*50.0*		*73.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.5*		*"*	*50.0*		*73.0*	*70-130*			
Calibration Check (EE51202-CCV1)				Prepared & Analyzed: 05/12/05						
Gasoline Range Organics C6-C12	468		mg/kg	500		93.6	80-120			
Diesel Range Organics >C12-C35	529		"	500		106	80-120			
Total Hydrocarbon C6-C35	997		"	1000		99.7	80-120			
Surrogate: 1-Chlorooctane	*47.3*		*"*	*50.0*		*94.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.7*		*"*	*50.0*		*83.4*	*70-130*			
Matrix Spike (EE51202-MS1)	**Source: 5E11007-01**			Prepared & Analyzed: 05/12/05						
Gasoline Range Organics C6-C12	539	10.0	mg/kg dry	563	ND	95.7	75-125			
Diesel Range Organics >C12-C35	585	10.0	"	563	ND	104	75-125			
Total Hydrocarbon C6-C35	1120	10.0	"	1130	ND	99.1	75-125			
Surrogate: 1-Chlorooctane	*48.6*		*mg/kg*	*50.0*		*97.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.5*		*"*	*50.0*		*77.0*	*70-130*			
Matrix Spike Dup (EE51202-MSD1)	**Source: 5E11007-01**			Prepared & Analyzed: 05/12/05						
Gasoline Range Organics C6-C12	511	10.0	mg/kg dry	563	ND	90.8	75-125	5.33	20	
Diesel Range Organics >C12-C35	604	10.0	"	563	ND	107	75-125	3.20	20	
Total Hydrocarbon C6-C35	1120	10.0	"	1130	ND	99.1	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*47.6*		*mg/kg*	*50.0*		*95.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.4*		*"*	*50.0*		*76.8*	*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 EE51204 - EPA 5030C (GC)										
Blank (EE51204-BLK1)				Prepared & Analyzed: 05/12/05						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*89.7*		*ug/kg*	*100*		*89.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*82.0*		*"*	*100*		*82.0*	*80-120*			
LCS (EE51204-BS1)				Prepared & Analyzed: 05/12/05						
Benzene	101		ug/kg	100		101	80-120			
Toluene	96.4		"	100		96.4	80-120			
Ethylbenzene	94.8		"	100		94.8	80-120			
Xylene (p/m)	210		"	200		105	80-120			
Xylene (o)	99.9		"	100		99.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	*101*		*"*	*100*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*103*		*"*	*100*		*103*	*80-120*			
Calibration Check (EE51204-CCV1)				Prepared & Analyzed: 05/12/05						
Benzene	99.3		ug/kg	100		99.3	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	95.8		"	100		95.8	80-120			
Xylene (p/m)	217		"	200		108	80-120			
Xylene (o)	103		"	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*99.8*		*"*	*100*		*99.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*94.1*		*"*	*100*		*94.1*	*80-120*			
Matrix Spike (EE51204-MS1)	**Source: 5E11007-01**			Prepared & Analyzed: 05/12/05						
Benzene	91.4		ug/kg	100	ND	91.4	80-120			
Toluene	85.8		"	100	ND	85.8	80-120			
Ethylbenzene	85.9		"	100	ND	85.9	80-120			
Xylene (p/m)	196		"	200	ND	98.0	80-120			
Xylene (o)	90.4		"	100	ND	90.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*99.0*		*"*	*100*		*99.0*	*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

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 EE51204 - EPA 5030C (GC)										
Matrix Spike Dup (EE51204-MSD1)	**Source: 5E11007-01**			Prepared & Analyzed: 05/12/05						
Benzene	80.3		ug/kg	100	ND	80.3	80-120	12.9	20	
Toluene	80.7		"	100	ND	80.7	80-120	6.13	20	
Ethylbenzene	80.3		"	100	ND	80.3	80-120	6.74	20	
Xylene (p/m)	182		"	200	ND	91.0	80-120	7.41	20	
Xylene (o)	88.9		"	100	ND	88.9	80-120	1.67	20	
Surrogate: a,a,a-Trifluorotoluene	*85.7*		"	*100*		*85.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*89.9*		"	*100*		*89.9*	*80-120*			

ARCADIS	Project: MT000834.0001	Fax: (432) 687-5401
1004 N. Big Spring Street	Project Number: MT000834.0001	**Reported:**
Midland TX, 79701	Project Manager: Sharon Hall	05/17/05 08:05

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 EE51203 - General Preparation (Prep)										
Blank (EE51203-BLK1)				Prepared: 05/12/05 Analyzed: 05/13/05						
% Moisture	ND	0.1	%							
Duplicate (EE51203-DUP1)	**Source: 5E11007-01**			Prepared: 05/12/05 Analyzed: 05/13/05						
% Moisture	10.8	0.1	%		11.2			3.64	20	
Batch EE51403 - Water Extraction										
Blank (EE51403-BLK1)				Prepared & Analyzed: 05/13/05						
Chloride	ND	0.500	mg/kg							
LCS (EE51403-BS1)				Prepared & Analyzed: 05/13/05						
Chloride	9.70		mg/L	10.0		97.0	80-120			
Calibration Check (EE51403-CCV1)				Prepared & Analyzed: 05/13/05						
Chloride	10.4		mg/L	10.0		104	80-120			
Duplicate (EE51403-DUP1)	**Source: 5E11007-01**			Prepared & Analyzed: 05/13/05						
Chloride	469	10.0	mg/kg		486			3.56	20	

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

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: Raland K Tuttle Date: 5/17/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

ARCADIS GERAGHTY & MILLER Laboratory Task Order No./P.O. No. _____ **CHAIN-OF-CUSTODY RECORD** Page ____ of ____

Project Number/Name MT000834.0001

Project Location Rice ~~Engineering~~ Operating

Laboratory Environmental Lab of Texas

Project Manager Sharon Hall

Sampler(s)/Affiliation ARCADIS

Sample ID/Location	Matrix	Date ~~Time~~ Sampled	Time ~~XXXX~~	ANALYSIS / METHOD / SIZE (1) 4 oz jar BTEX, Cl, TPH GRO & DRO Neat						Remarks	Total
BDK-27 North (40'-40')	S	5/9/05	15:45	1						SE11007-01	1
BDK 27-1 (25'-30')	S	5/10/05	9:37	1						-02	1
BD M14 (60'-61')	S	5/10/05	16:36	1						-03	1
BD M14 (55'-60')	S	5/10/05	16:30	1						-04	1

Sample Matrix: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 4

Relinquished by: Ralph Langs	Organization: ARCADIS	Date 5/11/05	Time 15:30	Seal Intact? Yes No N/A
Received by: Connie Kelly	Organization: ELOT	Date 5/11/05	Time 15:30	
Relinquished by:	Organization:	Date / /	Time	Seal Intact? Yes No N/A
Received by:	Organization:	Date / /	Time	

Special Instructions/Remarks:

2.0°C

Delivery Method: ☐ In Person ☐ Common Carrier _____ SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

AG 05-0597

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: ARCADIS

Date/Time: 5/11/05 15:30

Order #: 5E11007

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____