1R-426-153

REPORTS

DATE:

9-22-09



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Infrastructure, buildings, environment, communications

Mr. Edward Hansen New Mexico Oil Conservation Division 1220 So. Saint Francis Drive Santa Fe, New Mexico 87505

Certified Mail Receipt No. 7002 2410 0001 5812 9770

ARCADIS U.S., Inc. 1004 N. Big Spring Street Suite 300 Midland Texas 79701 Tel 432.687.5400 Fax 432.687.5401 www.arcadis-us.com

Subject:

MONITOR WELL REPORT/SAMPLING SUMMARY NMOCD Case # 1R426-153 Blinebry-Drinkard (BD) Jct. N-32 Vent T21S, R37E, Section 32, Unit N, Lea County, New Mexico

Dear Mr. Hansen,

On behalf of Rice Operating Company (ROC), ARCADIS respectfully submits this Monitor Well Report for the BD Jct. N-32 Vent site located in the Blinebry-Drinkard (BD) Salt Water Disposal (SWD) System.

An Investigation Characterization Plan (ICP) was submitted to New Mexico Oil Conservation Division (NMOCD) on May 21, 2008 and was approved by NMOCD on May 28, 2008. Per the approved ICP, four soil borings and one monitoring well were drilled at the site on October 6 and 7, 2008. A groundwater sample collected from the monitoring well on November 13, 2008 exhibited elevated chloride and total dissolved solids concentrations.

An ICP Report was submitted to NMOCD on April 22, 2009. The report recommended that based on the fact that elevated chloride concentrations in groundwater have been reported in the area since the early 1950s, one upgradient and one downgradient monitoring well be drilled at the site to assess groundwater quality. NMOCD approved the drilling of the two monitoring wells on June 24, 2009.

The monitoring wells were drilled on July 9, 2009 and sampled on July 24, 2009. The attached table summarizes the analytical results from groundwater samples collected from the monitor wells at the site. Groundwater laboratory reports are also attached.

Groundwater samples collected from each of the three monitoring wells exhibit elevated chloride concentrations. In order to further delineate elevated chloride concentrations in groundwater, ROC will drill two additional monitor wells. The

te:

September 22, 2009

Contact:

Sharon Hall

Phone:

432 687-5400

Email:

shall@arcadis-us.com

wells will be drilled approximately 50 feet downgradient (southeast) of MW#2 and upgradient of a pit located upgradient of the site (see attached figure). The well locations will be selected in the field based on access and site conditions.

ROC is the service provider (agent) for the BD Salt Water Disposal System and has no ownership of any portion of the pipelines, wells or facilities. The BD System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this summary of groundwater monitoring information and additional work to be performed at the site. If you have any questions please do not hesitate to contact me.

Best Regards,

ARCADIS U.S, Inc.

Sham E. Hael

Sharon E. Hall Associate Vice President

Copies: Hack Conder- ROC

Attachments:

Monitor Well Summary Table

Monitor Well Location Figure

Monitor Well logs

Laboratory Analytical Results

ROC BD N-32 vent

	NOO DO N-32 VEIL												
ΜW		Depth to Water	Total Depth \	Vell Vol	ume Volume Purged Sample Date CI	Sample Date		IDS	Benzene	Toluene	TDS Benzene Toluene Ethyl Benzene Total Xylenes Sulfate	Total Xylenes	Sulfate
	1	97.17	102.6	3.5	15	11/13/2008 2500 4970 < 0.001	2500	4970	<0.001	<0.001 <0.001	<0.001	<0.003	187
	1	81.78	102.68	3.6	15	1/21/2009 1540 3010 < 0.001	1540	3010	<0.001	<0.001 <0.001	<0.001	<0.003	130
	1	61.13	102.58	3.5	15	4/22/2009 1020 2210 <0.001	1020	2210	<0.001	<0.001	<0.001	<0.003	119
	1	1.76	102.58	3.6	15	7/24/2009 930 2090 <0.001	930	2090	<0.001	<0.001 <0.001	<0.001	<0.003	112
	2	82.66	105.96	1	4	7/24/2009 800 1920 <0.001	800	1920		<0.001 <0.001	<0.001	<0.003	190
	8	99.74	138.48	25.2	150	7/24/2009 2340 5220 <0.001	2340	5220	<0.001	<0.001 <0.001	<0.001	<0.003	106





ARCADIS U.S., Inc. 8725 Rosehill

Suite 350 Lenexa, Kansas 66215

MONITORING WELL LOG

WELL IDENTIFICATION: MW-01

WELL DEPTH: 101 ft

PROJECT INFORMATION

PROJECT: Rice Operating SITE LOCATION: BD-N-32 Vent PROJECT NUMBER: MT000834 000 1 GEOLOGIST: Lara Weinheimer DATE STARTED: 10/7/08 DATE COMPLETED: 10/7/08

SAMPLE METHOD: Split spoon and air rotary
DRILLING CO.: Harrison & Cooper, Inc. Drilling
DRILLER:

DRILLING METHOD: Rotary

LOCATION INFORMATION

TOC ELEVATION:

TOC ELEVATION:
DATUM CP:
CP ELEVATION.:
NORTHING:
EASTING:
DEPTH TO WATER: 95 ft bgs
GW ELEVATION.:
DATE MEASURED: 10/7/08
BORING DIAMETER: 7 3/8 inches
BORING DEPTH: 100 feet

WELL CONSTRUCTION

WELL CASING Casing Material: Sch 40 PVC
Casing Diameter: 4 inch
ANNULUS SEAL
Seal Material: Bentonite
Screen Diameter: 4 inches
Screen Opening: 0.010 inches
Screened Interval: 80 - 100

WELL SCREEN

GROUT Grout Material: Portland Cement

SAND PACK Filter Material: Silica Sand

		1	LITHOLOGY		SAMPLING DET	AIL	-	
RECOVERY (H)	uscs	SYMBOL	SOIL DESCRIPTION	SAMPLE	ANALYTES	PID (ppm)	OEPTH (ft bgs)	WELL CONSTRUCTION
	SP		Fine Sand Keddish-orange, very fine to fine sand, slightly clayey, dry		Lield Chlorides		-	
	SP		Fine Sand Light brown, very fine to fine sand, caliche, dry		317 Lab 928	0	5-	
	SP		Fine Sand Light brown, very fine to fine sand, dry		1085	0	10-	asing
	SP		Fine Sand Light brown, very fine to fine sand, caliche, dry		n°6	0	15	4" PVC Casing
			Fine Sand Light brown, very fine to fine sand, rocky, dry		672	0	20-	
	SP				632		25-	# #
					545		30-	田田
			Fine Sand Orangey-brown, very fine to fine sand, slightly moist.		458		35	# #
	SP				491		40-	Chips
			Fine Sand Orangey-brown, very fine to fine sand, rocky, slightly most		526		45-	Bentante
	SP				478		50-	# #
					471		55	# #
	ss		Sandstone Orangey-brown, very line to line sandstone, slightly moist	*	520		60	# #
			Fine Sand Orangey-brown, very fine to fine sand, rocky, slightly moist		453		05-	HH
	SP				483		70-	H
					503		75 -	

Notes: In - inches, ft bgs - feet below ground surface, ppm - parts per million USCS - United Soil Classification System Datum CP - Datum Control Point, GW - Groundwater

Monitoring Well: MW-01



ARCADIS U.S., Inc. 8725 Rosehill

Suite 350 Lenexa, Kansas 66215

MONITORING WELL LOG

WELL IDENTIFICATION: MW-01

WELL DEPTH: 101 ft

WELL SCREEN

PROJECT INFORMATION

PROJECT INFORMATION

PROJECT: Rice Operating
SITE LOCATION: BD-N-32 Vent
PROJECT NUMBER: MT000834,0001
GEOLOGIST: Lara Weinheimer
DATE STARTED: 107/108
DATE COMPLETED: 10/7/08
SAMPLE METHOD: Spid spoon and air rotary
DRILLING CO.: Hamson & Cooper, Inc. Dniling
DRILLER:

DRILLER: DRILLING METHOD: Rotary

LOCATION INFORMATION

TOC ELEVATION: DATUM CP: CP ELEVATION.: NORTHING:

DEPTH TO WATER: 95 ft bgs GW ELEVATION: DATE MEASURED: 10/7/08 BORING DIAMETER: 7 3/8 inches BORING DEPTH: 100 feet

WELL CONSTRUCTION

WELL CASING Casing Material: Sch 40 PVC
Casing Diameter: 4 inch
ANNULUS SEAL
Seal Material: Bentonite
Screen Material: Sch 40 PVC
Screen Diameter: 4 inches
Screen Opening: 0 010 inches
Screened Interval: 80 - 100

GROUT

Grout Material: Portland Cement

SAND PACK Filter Material: Silica Sand

-		1	: Rolary	LITHOLOGY	BORING DEPTH	1. 100 feet	SAMPLING DE		1: 5ilica 5	Child
				LITHOLOGY			SAMPLING DE	AIL		
	RECOVERY (#)	uscs	SYMBOL	SCIL DE	SCRIPTION	SAMPLE	ANALYTES	PiD (ppm)	ОЕРТН (п bgs)	WELL
							Lah 384			
				Not Logged			450		80	†
								0	85 —	
								0	00	a Sand
Andrew American								0	95-	8 16 Silica Sand
								0	100	00
									105	
									110-	
-									115	
									120-	
									125-	
1									130	
									135	
									140	
									145	
									150-	

Notes: in - inches, It bgs - feet below ground surface, ppm - parts per million USCS - United Soil Classification System Datum CP - Datum Control Point, GW - Groundwater

Monitoring Well: MW-01



ARCADIS U.S., Inc.

8725 Rosehill Lenexa, Kansas 66215

MONITORING WELL LOG

WELL IDENTIFICATION: MW-02

WELL DEPTH: 104 ft

PROJECT INFORMATION

PROJECT: Rice Operating
SITE LOCATION: BD-N-32 Vent
PROJECT NUMBER: MT000834.0001
GEOLOGIST: Lara Weinheimer
DATE STARTED: 7.9.09
DATE COMPLETED: 7.9.09

SAMPLE METHOD: Splitspoon and Rotary cuttings
DRILLING CO.: Harrison Cooper Inc.
DRILLER:
DRILLING METHOD: Air Rotary

LOCATION INFORMATION

TOC ELEVATION:
DATUM CP:
CP ELEVATION.:
NORTHING: N32 25.877'
EASTING: W103 11 286'
DEPTH TO WATER: 90 ft bgs
GW ELEVATION:
DATE MEASURED: 7/9/09
BORING DIAMETER: 7 3/8 inches
BORING DEPTH: 104 feet

WELL CONSTRUCTION WELL SCREEN

WELL CASING Casing Material: Sch 40 PVC
Casing Diameter: 2 inch
ANNULUS SEAL
Seal Material: Bentonite
Screen Diameter: 2 inches
Screen Opening: 0.010 inches
Screened Interval: 84-104

GROUT Grout Material: Portland Cement

SAND PACK Filter Material: Silica Sand 8/16

	/*************************************			LITHOLOGY	I	SAMPLING DET	AIL		
DEРТН (ft bgs)	RECOVERY (#)	uscs	SYMBOL	SOIL DESCRIPTION	SAMPLE	ANALYTES	PID (ppm)	DЕРТН (R bgs)	WELL CONSTRUCTION
5		SP		Fine Sand Reddish-orange, very fine to fine sand, dry, no odor		Field Chlorides	0.1	5-	Vorland Cement
15-				Fine Sand Reddish-tan, very fine to fine sand with caliche, dry, no oxfor		315	0	15-	PVCCasing
20-		SP				179	0	20-	
VO						140		30	
35						147		35-	
40-				Fine Sand Reddish-brown, very fine to fine sand with consolidated rock, dry, no odor		[44		40 -	Bertomie Chips
۷(۱ –						156		50-	Benk
5.5						38		55-	AA
60		SP				84		65	# #
20-						87		70	
75						03		75-	# #

Notes: in - inches, ft bgs - feet below ground surface, ppm - parts per million USCS - United Soil Classification System Datum CP - Datum Control Point, GW - Groundwater

Monitoring Well: K27-MW-05



ARCADIS U.S., Inc.

8725 Rosehill Lenexa, Kansas 66215

MONITORING WELL LOG

WELL IDENTIFICATION: MW-02

WELL DEPTH: 104 ft

WELL SCREEN

PROJECT INFORMATION

PROJECT INFORMATION

PROJECT: Rice Operating

SITE LOCATION: BD-N-32 Vent

PROJECT NUMBER: MT000834 0001

GEOLOGIST: Lara Weinheimer

DATE STARTED: 79:09

DATE COMPLETED: 79:09

SAMPLE METHOD: Splitspoon and Retary cuttings

DRILLING CO.: Harrison Cooper Inc.

DRILLING METHOD: Air Rotary

DRILLING METHOD: Air Rotary

LOCATION INFORMATION

TOC ELEVATION:

TOC ELEVATION:
 DATUM CP:
 CP ELEVATION.:
 NORTHING: N32 25 877'
 EASTING: W103 11.286'
 DEPTH TO WATER: 90 ft bgs
 GW ELEVATION:
 DATE MEASURED: 7:9/09
 BORING DIAMETER: 7 3/8 inches
 BORING DEPTH: 104 feet

WELL CONSTRUCTION

WELL CASING Casing Material: Sch 40 PVC
Casing Diameter: 2 inch
ANNULUS SEAL
Seal Material: Bentonte
Screen Diameter: 2 inches
Screen Opening: 0.010 inches
Screened Interval: 84-104

GROUT
Grout Material: Portland Cement

SAND PACK Filter Material: Spica Sand 8/16

				LПНОLОGY		SAMPLING DETA			
DEPTH (# bgs)	RECOVERY (ft)	uscs	SYMBOL.	SOIL DESCRIPTION	SAMPLE	ANALYTES	PID (ppm)	DEРТН (it bgs)	WELL
×0						115		80-	
96 -		42		Fine Saud Orangey-brown, very fine to fine sand, slightly moist, no odor No Recovery		1.ab 16		85-	
35				So Recitery				95	S 10 Silves Sand
H(K) =			_					100	50
105								105	¥
115								110	
120								120-	
135								125-	
130-								130	
(40 -								140	
145								145	
								150-	

Notes in - inches, ft bgs - feet below ground surface, ppm - parts per million USCS - United Soil Classification System Datum CP - Datum Control Point, GW - Groundwater

Monitoring Well: K27-MW-05



ARCADIS U.S., Inc.

8725 Rosehill Suite 350 Lenexa, Kansas 66215

MONITORING WELL LOG

WELL IDENTIFICATION: MW-03

WELL DEPTH: 135 ft

PROJECT INFORMATION

PROJECT: Rice Operating
SITE LOCATION: BD-N-32 Vent
PROJECT NUMBER: MT000834,0001
GEOLOGIST: Lara Weinheimer
DATE STARTED: 7/9/09
DATE COMPLETED: 7/9/09
SAMPLE METHOD: Spirt Spoon and Air Rotary.
DRILLING CO.: Hamson & Cooper, Inc. Drilling
DRILLER:

DRILLER: DRILLING METHOD: Rotary

TOC ELEVATION:
DATUM CP:
CP ELEVATION:
NORTHING: N32 25 915
EASTING: W103 11.302
DEPTH TO WATER: 90 ft bgs
GW ELEVATION:
DATE MEASURED: 7/9/09
BORING DIAMETER: 7 3/8 inches
BORING DEPTH: 135 feet

LOCATION INFORMATION

WELL CONSTRUCTION

WELL CASING Casing Material: Sch 40 PVC
Casing Diameter: 4 inch
ANNULUS SEAL
Seal Material: Bentombe
Screen Opening: 0.030 inches
Screened Interval: 85-125

WELL SCREEN

GROUT Grout Material: Portland Cement SAND PACK Filter Material: Silica Sand

T			, rividry	LITHOLOGY		SAMPLING DETA	-		
				CITIOLOGI.		SAME LING DE I	1	T	
	RECOVERY (#)	uscs	SYMBOL	SOIL DESCRIPTION	SAMPLE	ANALYTES	PID (ppm)	DEPTH (# bgs)	WELL CONSTRUCTION
Ŧ				Fine Sand		Field Chlorides		-	TTT
				Reddish-orange, very fine to fine said, dry, no odor					
		SP				120	0.5	5-	
1									o Par
-			September 1982	Fine Sand	-	112	0.1	10-	of the state of th
				Orangey-tan very fine to fine sand with caliche,				-	50 Jan
		SP	036 36	dry, no odor		114	0.1	15-	Casa
									4* PVC Casing
						183	0	20-	1 1
7				Fine Sand Tan, very fine to fine sand with caliche, dry, no		193		-0	
				eder				-	
						148	0	25-	
		SP						-	
						183	0	30-	
-									
				Fine Sand	-	1 ab 48 183	0	35-	A H
-				Reddish-brown, very fine to fine sand with consolidated rock, dry, no odor				-	
1				Constitution (C. K., dry, 10 toles)		183	0	40-	
						142		45	ng d
-									Sentonic
-			E 10 3 3 1			123		50-	
						100			
						80		55-	
						24		23	
								-	
		SP				88		60-	H
						8.4		65	
1									
						84		70 -	
-								-	
						91		75-	

Notes: in - inches, ft bgs - feet below ground surface, ppm - parts per million USCS - United Soil Classification System Datum CP - Datum Control Point, GW - Groundwater

Monitoring Well: MW-03



ARCADIS U.S., Inc. 8725 Rosehill

Suite 350 Lenexa, Kansas 66215

MONITORING WELL LOG

WELL IDENTIFICATION: MW-03

WELL DEPTH: 135 ft

WELL SCREEN

PROJECT INFORMATION

PROJECT INFORMATION

PROJECT: Rice Operating
SITE LOCATION: BD-N-32 Vent
PROJECT NUMBER: MT000834 0001
GEOLOGIST: Lara Weinheimer.
DATE STARTED: 779.09
DATE COMPLETED: 779.09
SAMPLE METHOD: Split Spoon and Air Rotary
DRILLING CO.: Harrison & Cooper, Inc. Drilling
DRILLING METHOD: Retary.

DRILLING METHOD: Rotary

LOCATION INFORMATION

TOC ELEVATION:

TOC ELEVATION:
 DATUM CP:
 CP ELEVATION.:
 NORTHING: N32 25.915
 EASTING: W103 11.302
DEPTH TO WATER: 90 ft bgs
 GW ELEVATION:
 DATE MEASURED: 779/09
BORING DIAMETER: 7 3/8 inches
 BORING DEPTH: 135 feet

WELL CONSTRUCTION

WELL CASING Casing Material: Sch 40 PVC
Casing Diameter: 4 inch
ANNULUS SEAL
Seal Material: Bentonite
Screen Opening: 0.030 inches
Screened Interval: 85-125

GROUT
Grout Material: Portland Cement

SAND PACK Filter Material: Silica Sand

LITHOLOGY SAMPLING DETAIL DEPTH (n bgs) WELL, CONSTRUCTION USCS SYMBOL SOIL DESCRIPTION PID (ppm) No Recovery 100 105 140 145

Notes: in - inches, ft bgs - feet below ground surface, ppm - parts per million USCS - United Soil Classification System Datum CP - Datum Control Point, GW - Groundwater

Monitoring Well: MW-03



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER

122 W. TAYLOR HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 07/29/09

Reporting Date: 08/04/09

Project Number: NOT GIVEN Project Name: BD N-32 VENT

Project Location: T21S-R37E-SEC32 N~ LEA CO., NM

Sampling Date: 07/24/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DAT	E	08/03/09	08/03/09	08/03/09	08/03/09
H17891-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
H17891-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H17891-3	RECOVERY WELL #1	<0.001	<0.001	<0.001	<0.003
				-	
Quality Control		0.049	0.050	0.050	0.151
True Value QC		0.050	0.050	0.050	0.150
% Recovery		98.0	100	100	101
Relative Percer	t Difference	8.3	18.2	6.1	16.6

METHOD: EPA SW-846 8021 B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Date



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 07/29/09 Reporting Date: 07/31/09 Project Number: NOT GIVEN

Project Name: BD N-32 VENT

Project Location: T21S R37E SEC32 N ~ LEA CO., NM

Sampling Date: 07/24/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: HM

		CI	SO₄	TDS
LAB NO.	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)
Analysis Date:		07/30/09	07/30/09	07/30/09
H17891-1	MONITOR WELL #1	930	112	2,090
H17891-2	MONITOR WELL #2	800	190	1,920
H17891-3	RECOVERY WELL #1	2,340	106	5,220
,				
Quality Control		500	38.5	NF
True Value QC		500	40.0	NF
% Recovery		100	96.3	NF
Relative Percen	t Difference	2.0	3.7	9.0
ETHOD: Standa	rd Methods, EPA	4500-CIB	375.4	160.

Chemist

H17891 RICE

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive romedy for any delim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without flimitation, 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 or whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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	101 East Marland - Hobbs, New Mexico 86240	Tel (575) 393-2328 Fax (575) 393-2476	nedu	NOE OPERATING COMPANY	rigea meneger.	Hack Conder	Address:	122 W Taylor Street - Hobbs, New Mexico 88240	Phone #: (575) 393-9174	Project #:		Project Location: T21S R37E			₹	LAB USE ONLY	11/								1		relinquistred by.	1/2/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	Ξ Σ	١	Delivered By:	
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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 04/23/09 Reporting Date: 04/27/09

Project Number: NOT GIVEN

Project Name: BD N-32 VENT

Project Location: T21S R37E SEC32 N ~ LEA CO., NM

Sampling Date: 04/22/09

Sample Type: WATER

Sample Condition: COOL & INTACT Sample Received By: ML

Analyzed By: TR

Analysis Date:	04/24/09	04/24/09	04/24/09
H17300-1 MONITOR WELL #1	1,020	119	2,210
		· · · · · · · · · · · · · · · · · · ·	will the second

Quality Control	490	40.8	NR
True Value QC	500	40.0	NR
% Recovery	98.0	102	NR
Relative Percent Difference	2.0	0.7	1.9
METHOD: Standard Methods, EPA	4500-CIB	375.4	160.1

Chemist

Date

04/28/09

H17300 RICE



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 04/23/09 Reporting Date: 04/27/09

Project Number: NOT GIVEN Project Name: BD N-32 VENT

Project Location: T21S-R37E-SEC32 N~ LEA CO., NM

Sampling Date: 04/22/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

LAB NUMBEF SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE	04/24/09	04/24/09	04/24/09	04/24/09
H17300-1 MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
Quality Control	0.050	0.047	0.054	0.165
True Value QC	0.050	0.050	0.050	0.150
% Recovery	100	94.0	108	110
Relative Percent Difference	<1.0	1.3	. 6.2	1.8

METHOD: EPA SW-846 8021 B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST (Circle or Specify Method No.)				(9:		e Hg e	55 Exte	92 CQ C	A A A S E E A A A B A S E E A A B A S E A B A B E B A B B B B B B B B B B B B	TIME MTBE 8021 BTEX 8021 TPH 418.11 PAH 8270C Total Metals TCLP Metals TCLP Semi 1 TCLP Semi 1 TCLP Semi 1 TCLP Semi 2 TCLP Semi 3 TCLP Semi 4 TCLP	6						Phone Results Yes No		REMARKS:	Email Results to: hconder@riceswd.com	weinheimer@riceswd.com rozanne@valornet.com	3
	Carcinal Laboratories, Inc.	، y Company	Address: (Street, City, Zip)	~ Hobbs, New Mexico 8824	Phone#: Fax#: Fax#: (575) 303-0174 (575)	100 000 (010)	(5/5) 39/-14/1	UNU	Sampler Signaturer Rozanne Johnson (575)631-9310	MATRIX PRESERVATIVE METHOD	ADPE)	MATER SOUR SOUR SOUR SOUR SOUR SOUR SOUR SOU	3 X X						Received by: , , Date: Time:	Matur Lelly 4 4-23-209 12:04	Received By: (Laboratory Staff) Date: Time:		dilion Cool Intact	Yes (Initials) W()
bs, New	Mexico 86240 Tel (575) 393-2326 Fex (575) 393-2476	Company Name: RICE Operating Company	Project Manager:	Ŝ	Address: (Street, City, Zip) 122 M. Taulor Street , Hoches Manifold B0240	Ayor Street - noods, Ivew Ivizated Gozzao	393-9174	Project #: Project Name: BD N-32 Vent	Project Location: T21S R37E Sec32 N ~ Lea County New Mexico		LAB#	LAB USE ONLY (G) IRAB OF (C)	-//73CD- Monitor Well #1 G	Ī				1 A A	Relinguished by Date: Time: Reco	Rozanne Johnson 4-23-2009 12:03	Date: Time:		Delivered By: (Circle One)	Sampler - UPS - Bus - Other:



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 W. TAYLOR

HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 01/23/09 Reporting Date: 01/29/09

Project Number: NOT GIVEN

Project Name: BD N-32 VENT

Project Location: T21S-R37E-SEC32 N~ LEA CO., NM

Sampling Date: 01/21/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	TE	01/28/09	01/28/09	01/28/09	01/28/09
H16750-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003

ANALYSIS D	ATE	01/28/09	01/28/09	01/28/09	01/28/09
H16750-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
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	regions is the second of the s				77C27
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Quality Contr	ol	0.055	0.056	0.055	0.167
True Value Q	C	0.050	0.050	0.050	0.150
% Recovery	A STATE OF THE STA	110	112	110	111
Relative Perc	ent Difference	1.7	1.7	<1.0	<1.0

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,

AND TOTAL XYLENES.

Chemist

Date



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 01/23/09 Reporting Date: 01/27/09 Project Number: NOT GIVEN Project Name: BD N-32 VENT

Project Location: T21S-R37E-SEC32 N ~ LEA CO., NM

Sampling Date: 01/21/09 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: TR

LAB NUMBER SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:	01/27/09	01/27/09	01/27/09	01/27/09	01/26/09	01/26/09
H16750-1 MONITOR WELL #1	931	116	43.7	20.9	4,540	216
Quality Control	NR	48.1	51.0	2.78	1,429	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	96.2	102	92.6	101	NR
Relative Percent Difference	NR	<0.1	<0.1	7.3	0.1	NR
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1

	CI	SO ₄	CO3	HCO_3	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	01/26/09	01/26/09	01/26/09	01/26/09	01/26/09	01/26/09
H16750-1 MONITOR WELL #1	1,540	130	0	264	7.16	3,010
			- Marie de la Companya de la Company			
·	. [
Quality Control	490	42.1	NR	1000	7.00	NR
True Value QC	500	40:0	NR	1000	7.00	NR
% Recovery	. 98.0	105	NR	100	100	NR
Relative Percent Difference	2.0	3.1	NR	<0.1	0.1	NR

METHODS: SM4500-CI-B 375.4 310.1 310.1 150.1 160.1

Chemist

Date

PLEASE NOTE: Liability and Oamages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be litrited to the amount paid by client for analyses. All claim; in the certain of the contract or tort, shall be litrited to the amount paid by client for analyses. All claim; in the certain of the contract or tort, shall be litrited to the applicable service. In no event shall cardinal be liable for incidental or consequential damages, including, without initiation, 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 heroundor by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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393-9174	(575) 397	397-1471											62)	109			*********									
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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER

122 W. TAYLOR HOBBS, NM 88240

FAX TO: (575) 397-1471

Receiving Date: 11/17/08

Reporting Date: 11/21/08

Project Number: NOT GIVEN

Project Name: BD N-32 VENT

Project Location: T21S-R37E-SEC32 N~ LEA CO., NM

Sampling Date: 11/13/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: ZL

LAB NUMBER SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES ¹ (mg/L)
ANALYSIS DATE	11/20/08	11/20/08	11/20/08	11/20/08
H16348-1 MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
Quality Control	0.060	0.051	0.055	0.154
True Value QC	0.050	0.050	0.050	0.150
% Recovery	120	102	110	103
Relative Percent Difference	1.7	10.1	5.2	3.3

METHOD: EPA SW-846 8260B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: HACK CONDER 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/17/08 Reporting Date: 11/20/08 Project Number: NOT GIVEN

Project Number: NOT GIVEN Project Name: BD N-32 VENT

Project Location: T21S-R37E-SEC32 N ~ LEA CO., NM

Sampling Date: 11/13/08 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: TR

	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBE SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DATE:	11/19/08	11/19/08	11/19/08	11/19/08	11/18/08	11/18/08
H16348-1 MONITOR WELL #1	1,240	281	117	32.2	7,280	204
			A	. AMO	~ 2.000	
			44,7 1,000			
Quality Control	NR	48.1	48.6	3.07	1,429	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	96.2	97.2	102	101	NR
Relative Percent Difference	NR	8.0	<0.1	5.7	0.4	NR
METHODS:	SM3	3500-Ca-D	3500-Mg E	8049	120.1	310.1

	CI	SO ₄	CO_3	HCO₃	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DATE:	11/18/08	11/19/08	11/18/08	11/18/08	11/18/08	11/19/08
H16348-1 MONITOR WELL #1	2,500	187	0	249	7,17	4,970
Quality Control	500	44.8	NR	1000	7.02	NR
True Value QC	500	40.0	NR	1000	7.00	NR
% Recovery	100	112	NR	100	100	NR
Relative Percent Difference	<0.1	0.7	NR	<0.1	0.1	NR
METHODS:	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

Chemist I. Moveni

11-30-08 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims including these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no even shall be disable 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 hereinfall, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST	(Circle or Specify Method No.)			Z-00	2/90	LOS		98 9	Ct bh	8s Cd 6s Cd	s Ag As I lies Volatiles cides ni Vol. 8 2/608 pH pH ontent content	PAH 8270C Total Metals TCLP Metal TCLP Semi TCLP Semi TCLP Pestir RCI GC/MS Vol. GC/MS Sen BCI GC/MS Sen RCI CAMS Sen CAMS Sen CAMS Sen CAL	×××					ts Yes No	. Yes No Additional Fax Number:	AARKS: Email Results to: hconder@riceswd.com		<u>rozanne(@valornet.com</u>	
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	alories,	BILL TO Company. RICE Operating Company	ss: (Street, City, Zip)	- Hobbs, New Mexi	#; Fax#:	74 (575)397-1471			7 97	ler Stonature: Rozarthe Johnson (575)631-9310	S. A. I.	THE METHOD SAMPLING	· HDPE)	DATE (200 NONE H2SO, H2SO, HUO3 HCL (240m) HCL (240m)	2 1 14					īme:	10:49 80-11-11 ON/	(siy-Staff) Date: Time:	EHO	(Initials)	
) 523 P23		BILL TO Company: RICE Operating	Address:	122 W Taylor Stree	Phone#:	(575) 393-9174	Fax#:	(575) 397-1471		Samo		M	· · · · · · · · · · · · · · · · · · ·	(G)rab or (C) # CONTER WATER SOIL	х 3					Received by:	Patal Na	Received BK (Laborate	lition	Yes Cool	$\frac{1}{2}$
New	Tel (575) 393-2476	Company Name: RICE Operating Company	Project Manager:	Hack Conder	Address: (Street, City, Zip)	New Mexico 88240		393-9174	Project #: Project Name: RD N-32 Vent	Project Location:	T21S R37E Sec32 N ~ Lea County New Mexico		LAB# FIELD CODE	(LAB USE)	11/0348-/ Monitor Well #1				J	Time:	Rozanne Johnson 11-17-08 9:00	Relinquished by: Date: Time: Refinduished by: The Property of		Sampler - UPS - Bus - Other)	