

AP - 71

ANNUAL MONITORING REPORT

YEAR(S):
2010

ARCADIS

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Mr. Edward Hansen

New Mexico Energy, Minerals, & Natural Resources Dept.

Oil Conservation Division, Environmental Bureau

1220 S. St. Francis Drive

Santa Fe, New Mexico 87505

Subject: 2010 ANNUAL GROUNDWATER REPORT

Blinebry Drinkard (BD) H-35 Emergency Overflow Pit

Unit H, SEC. 35, T22S, R37E

NMOCD CASE # AP-71

Mr. Hansen:

On behalf of Rice Operating Company (ROC), ARCADIS G&M, Inc. (ARCADIS) respectfully submits the 2010 Annual Groundwater Report for the BD H-35 Emergency Overflow Pit site located at the H-35 facility on the Blinebry-Drinkard Salt Water Disposal System.

One monitoring well was installed on December 21, 2005 following approval of the Investigation and Characterization Work Plan on November 9, 2004.

The well was sampled quarterly in 2010 per NMOCD guidelines. The attached table summarizes the analytical results from groundwater samples collected from the monitor well at the site.

ROC is the service provider (agent) for the BD Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. The BD SWD 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 annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me or Hack Conder at (575) 393-9174.

Sincerely,

ARCADIS G&M, Inc.

Sharon E. Hall

Sharon E. Hall

Associate Vice President

Copies:

Hack Conder- ROC

Attachments: Data Summary Table, Monitor Well Location Figure, Lab Result

Recipient

Day Month Year

ARCADIS G&M, Inc.

1004 North Big Spring Street

Suite 300

Midland

Texas 79701

Tel 432 687 5400

Fax 432 687 5401

www.arcadis-us.com

Environmental

Date:

March 16, 2011

Contact:

Sharon E. Hall

Phone:

432 687-5400

Email:

shall@arcadis-us.com

Our ref:

MT000846.0001

ROC BD H-35 SWD

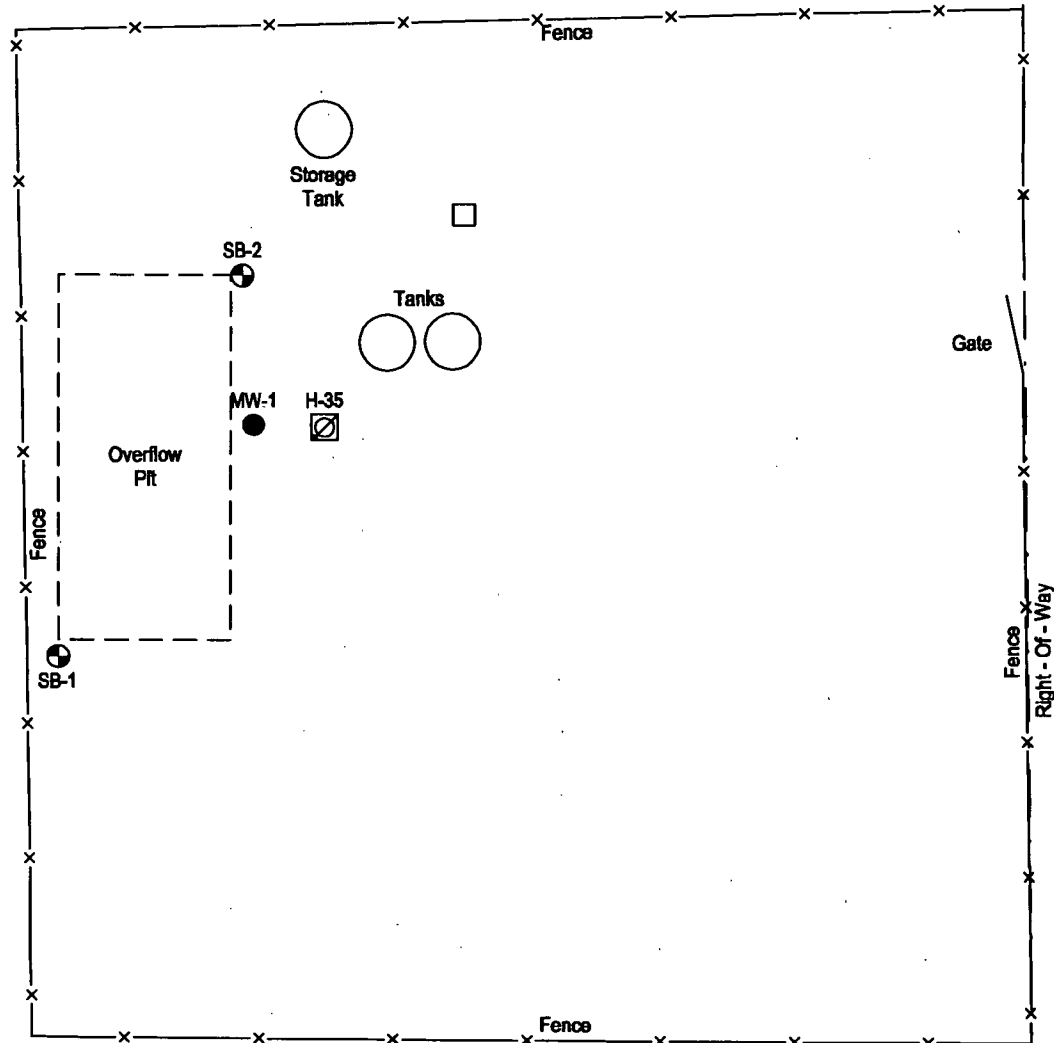
MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
1	43.64	57.20	8.8	30	1/4/2006	1880	4290	<0.001	<0.001	<0.001	<0.001	383
1	43.79	57.20	8.7	30	4/24/2006	2360	5380	<0.001	<0.001	<0.001	<0.001	405
1	43.92	57.20	8.6	35	7/19/2006	xxx	xxx	xxx	xxx	xxx	xxx	xxx
1	43.83	57.20	8.7	30	10/11/2006	2880	7460	<0.001	<0.001	<0.001	<0.001	561
1	44.10	57.16	8.5	30	1/25/2007	3240	5300	<0.001	<0.001	<0.001	<0.001	556
1	44.20	57.16	8.4	30	4/4/2007	3220	8680	<0.001	<0.001	<0.001	<0.001	381
1	43.99	57.16	8.6	30	8/24/2007	4749	12345	0.003	0.003	0.003	0.008	565
1	44.13	57.16	8.5	30	10/31/2007	3400	7028	<0.002	<0.002	<0.002	<0.006	499
1	44.22	57.20	8.4	30	1/15/2008	4800	9194	<0.001	<0.001	<0.001	<0.003	665
1	44.26	57.20	8.4	30	4/7/2008	4600	9350	<0.001	<0.001	<0.001	<0.003	888
1	44.34	57.20	8.4	30	7/22/2008	4400	9580	<0.002	<0.002	<0.002	<0.006	714
1	44.40	57.20	8.3	30	10/2/2008	3950	9350	<0.001	<0.001	<0.001	<0.003	675
1	44.47	57.20	8.3	30	1/14/2009	3650	7600	<0.001	<0.001	<0.001	<0.003	657
1	44.52	57.20	8.2	30	4/14/2009	3400	6550	<0.001	<0.001	<0.001	<0.003	629
1	44.56	57.23	8.2	30	7/13/2009	2380	4800	<0.001	<0.001	<0.001	<0.003	522
1	44.62	57.23	8.2	30	10/7/2009	3050	6900	<0.001	<0.001	<0.001	<0.003	519
1	44.66	57.23	8.2	30	1/13/2010	3050	6300	<0.001	<0.001	<0.001	<0.003	490
1	44.68	57.23	8.2	30	4/9/2010	2850	5480	<0.001	<0.001	<0.001	<0.003	618
1	44.60	57.23	8.2	30	7/9/2010	2650	4970	<0.001	<0.001	<0.001	<0.003	526
1	44.55	57.23	8.2	30	10/7/2010	2750	6430	<0.001	<0.001	<0.001	<0.003	512

All concentrations are milligrams per liter

CITY: MID-TX DSGROUP: ENV DB HC LD: PIC: PAK SH TAC LTR: ONA-OFF-REF UN: 3149-40811
 GSCACACTW10004940010001UNHS00948303.000 LAYOUT: 1 SAVED: 2/27/2008 4:24 PM ACADVER: 11.28 (JLB)

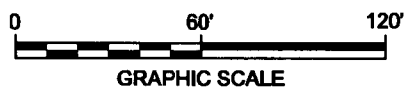
REFERENCES:

ESSENCE



Explanation

- Monitor Well
- ⊕ Soil Boring
- ⊘ Salt Water Disposal Well



RICE OPERATING COMPANY
LEA COUNTY, NEW MEXICO
BD H-35 EMERGENCY OVERFLOW PIT

MONITOR WELL AND SOIL BORING LOCATIONS



ARCADIS.

FIGURE

1



October 14, 2010

Hack Conder
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/08/10 11:10.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Rice Operating Company
Hack Conder
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received: 10/08/2010
Reported: 10/14/2010
Project Name: BD H-35 SWD
Project Number: NONE GIVEN
Project Location: T22S R37E SEC35 H-LEA CTY., NM

Sampling Date: 10/07/2010
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MONITOR WELL #1 (H021016-01)

BTX 8021B		mg/L	Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/13/2010	ND	0.018	88.5	0.0200		
Toluene*	<0.001	0.001	10/13/2010	ND	0.017	87.4	0.0200		
Ethylbenzene*	<0.001	0.001	10/13/2010	ND	0.018	89.2	0.0200		
Total Xylenes*	<0.003	0.003	10/13/2010	ND	0.052	86.1	0.0600		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 80-120

Chloride, SM4500Cl-B		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2750	4.00	10/13/2010	ND	100	100	100	0.00	

Sulfate 375.4		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	512	10.0	10/13/2010	ND	38.9	97.2	40.0	5.36	

TDS 160.1		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	6430	5.00	10/13/2010	ND				10.8	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

101 East Mariand - Hobbs, New Mexico 88240

Tel (575) 393-2326

Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name:

RICE Operating Company

Project Manager:

Hack Conder

Address:

122 W Taylor Street ~ Hobbs, New Mexico 88240

Phone #:

(575) 393-9174

Fax #:

(575) 393-1471

Company Name:

RICE Operating Company

Address:

122 W Taylor Street ~ Hobbs, New Mexico 88240

Phone #:

(575) 393-9174

Fax #:

(575) 393-1471

Project Location:

T22S R37E Sec35 H ~ Lea County New Mexico

Project Name:

BD H-35 SWD

Sampler Signature:

Rozanne Johnson

LAB #

(LAB USE ONLY)

FIELD CODE

A-C

(G)rab or (C)omp

G

CONTAINERS

3

MATRIX

WATER

PRESERVATIVE METHOD

HCL (2.40ml:VOA)

HNO₃

NaHSO₄

H₂SO₄

ICE (1-Liter HDPE)

DATE (2010)

10-7

TIME

11:10

LAB USE ONLY

42106-1

Monitor Well #1

Relinquished by:

Rozanne Johnson

Date:

10-8-2006

Time:

11:09

Relinquished by:

Rozanne Johnson

Date:

10-8-2006

Time:

11:09

Delivered By:

(Circle One)

Sampler

- UPS - Bus - Other:

Sample Condition

Cool

Intact

Checked By:

Rozanne Johnson

Date:

10/8/10

Time:

11:10

Em Email Results to:

hconder@riceswd.com

Initials:

RJ

Phone Results

Yes

Fax Results

Yes

Additional Fax Number:

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(Circle or Specify Method No.)

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