

1R – 428-69

GW REPORT

DATE:

1/14/08

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745 1-14-08

1R428-69
GW Report

January 14, 2008

Wayne Price
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: Ground Water Status Report
O-5 Vent, Section 05, T19S, R38E, Unit "O"
NMOCD Case #: 1R428-69

RECEIVED
2008 JAN 17 AM 9 54

Dear Mr. Price,

R.T. Hicks Consultants, Ltd. is pleased to submit this Ground Water Status Report for the O-5 Vent site located in the Hobbs Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
2. Graphs showing chemical concentration over time for chloride, TDS, and sulfate.
3. The well log for MW-1.
4. A plate showing the site in relation to Hobbs, NM.
5. Laboratory data sheets associated with 2007 sampling.

An Investigation and Characterization Plan was submitted to NMOCD for this site on April 11, 2007 and verbally approved on July 18th, 2007. One monitoring well was installed in August of 2007. As you will see, three sampling events over the course of 57 days show an average chloride concentration of 273 mg/L and a TDS concentration of 994 mg/L. Although chloride concentrations are slightly above ground water standards, this may be due to regional chloride levels. We propose to obtain four additional quarters of data and with the 2008 end of the year report we will determine if an addition well is necessary to characterize background conditions and identify the source of chloride in ground water.

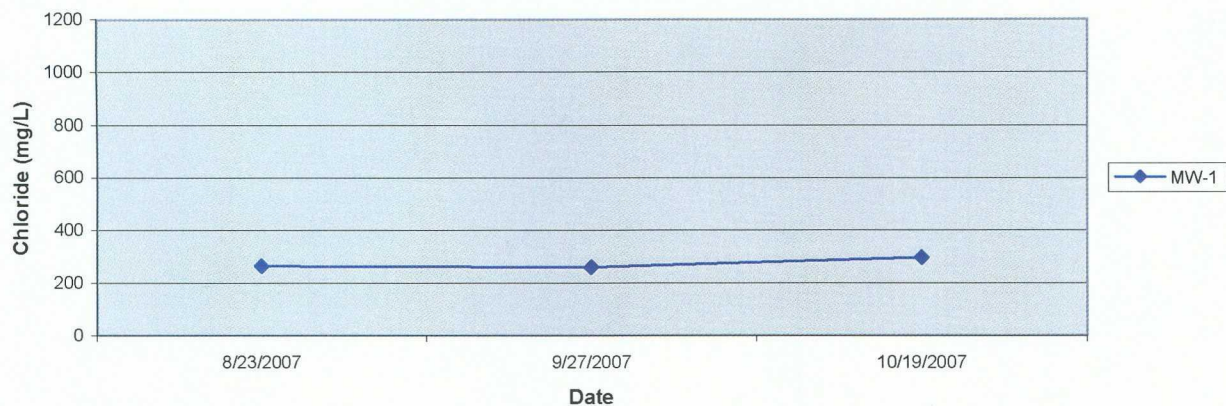
Thank you for your consideration of this status report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely,
R.T. Hicks Consultants, Ltd.

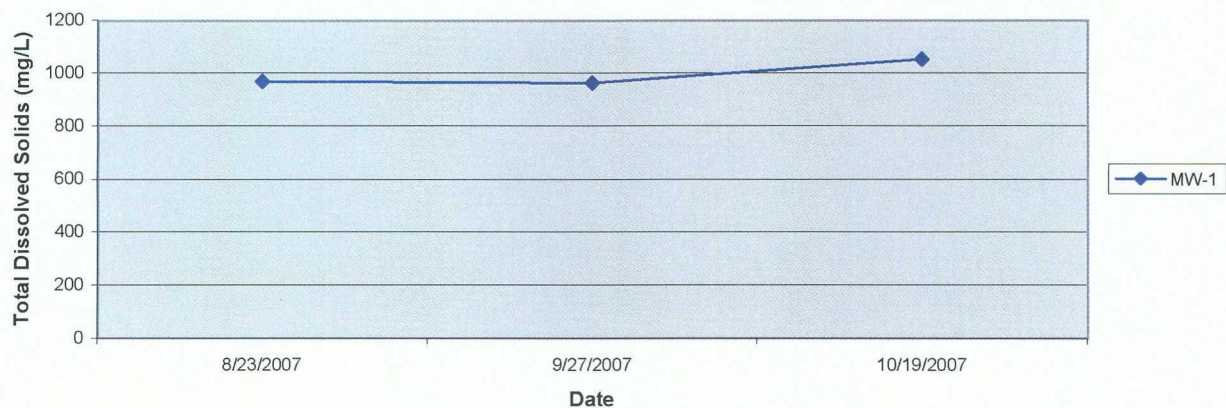


Katie Lee
Staff Scientist

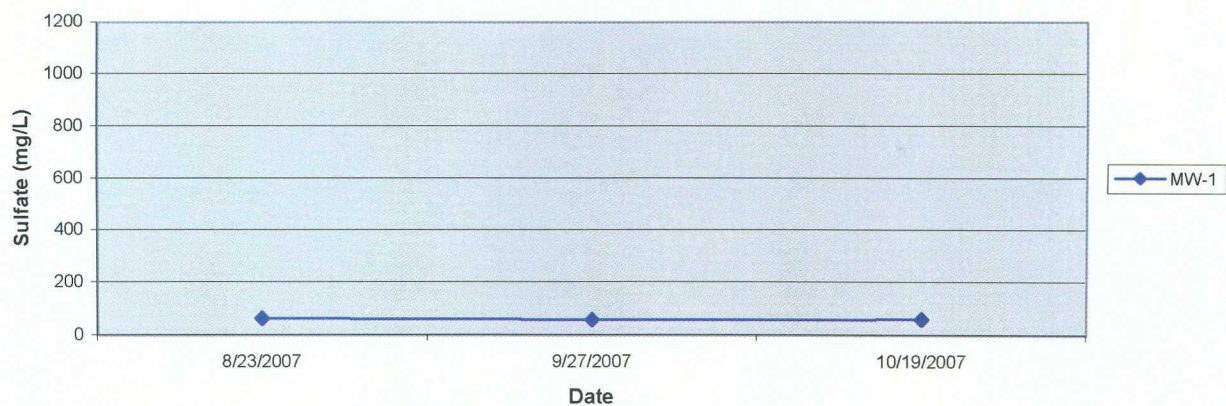
O-5 Vent
Chloride Over Time



O-5 Vent
TDS Over Time



O-5 Vent
Sulfate Over Time



R.T. Hicks Consultants, Ltd
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505-266-5004

Ground Water Chemistry

Rice Operating Company
2007 Annual Report

O-5 Vent

11/20/2007

Table 1: chemistry over time

O-5 Vent

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-1	9/23/2007	31.62	264	62.4	968	<0.002	<0.002	<0.002	<0.008	Clear No Odor
MW-1	9/27/2007	31.61	260	57.6	963	0.002	<0.001	<0.001	<0.003	Clear Slight odor
MW-1	10/19/2007	31.56	266	59.3	1052	0.003	0.001	<0.001	<0.003	Clear Slight odor

Borehole/Well Log

Facility Name: O-5 UTM/Geographic/State Plane: UTM
 Address: T18S R38E X: 32degrees41.196N
 City, State: Hobbs, NM Y: 103degrees09.923W
 County: Lea Z: 3611
 Driller: Harrison Cooper Datum: NAD 27
 Auger Type: Hallow Stem Borehole ID:
 Auger Dia.: 6" Well ID: O-5 MW-01
 Drill Date: 08/09/07 Total Depth 40'

DEPTH	W.L.	Lithology	Soil Description	Sample/ Blow Counts	PID ppm	Well Construction	Well Description
0			CALICHE, FINE SAND: white caliche, fine grained sand				
5			CALICHE: white caliche		2.6		
10			SAND, SILT, CALICHE: tan & pink very fine grained sand, silt, caliche		1.2		
15			SAND: tan, brown fine sand		1.1		
20			SAND, SILT, CALICHE: tan brown very fine grained sand, silt, caliche		0.8		
25			SAND AND SILT: tan brown very fine grained sand, silt		1.0		
30			SAND, SILT, CALICHE: moist, tan brown very fine grained sand, silt, caliche		0.8		
35			SAND, SILT, CALICHE: brown medium-fine grained sand, silt, caliche		0.6		
40							

R.T. Hicks Consultants, Ltd

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 Albuquerque, NM 87104
 Ph: 505-266-5004 Fax: 505-266-0745

Borehole/Well Log

Facility Name: Hobbs O-5

Address: Hobbs SWD

City, State: Hobbs, NM

County: Lea

Driller: Harrison & Cooper, Inc.

Auger Type: Hollow Stem

Auger Dia.: 8-inch

Drill Date: 8-9-07

UTM/Geographic/State Plane: UTM

X: 32 41.196N

Y: 103 09.923W

Z:

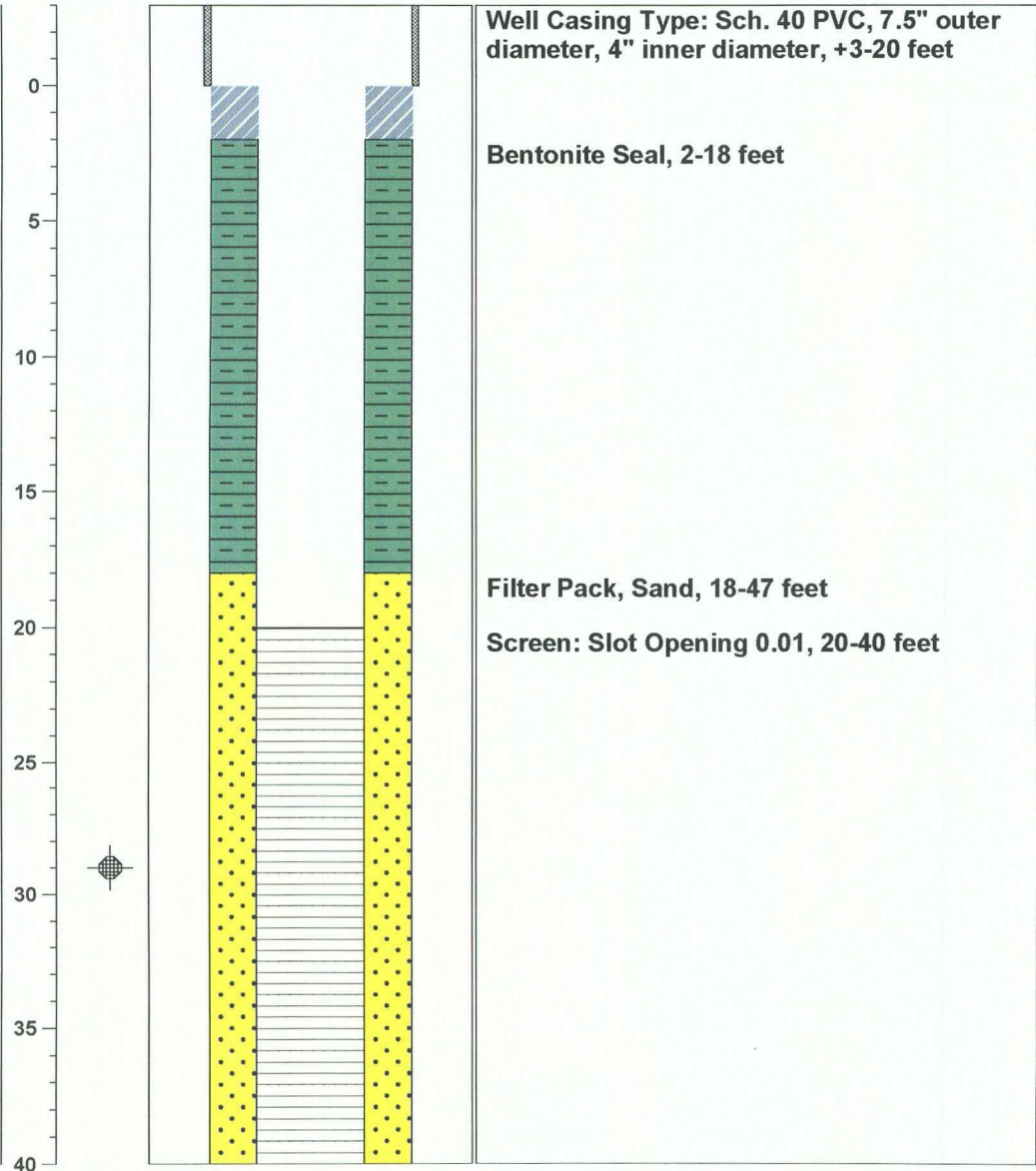
Datum: NAD 83

Borehole ID: O-5 Vent

Well ID: MW-1

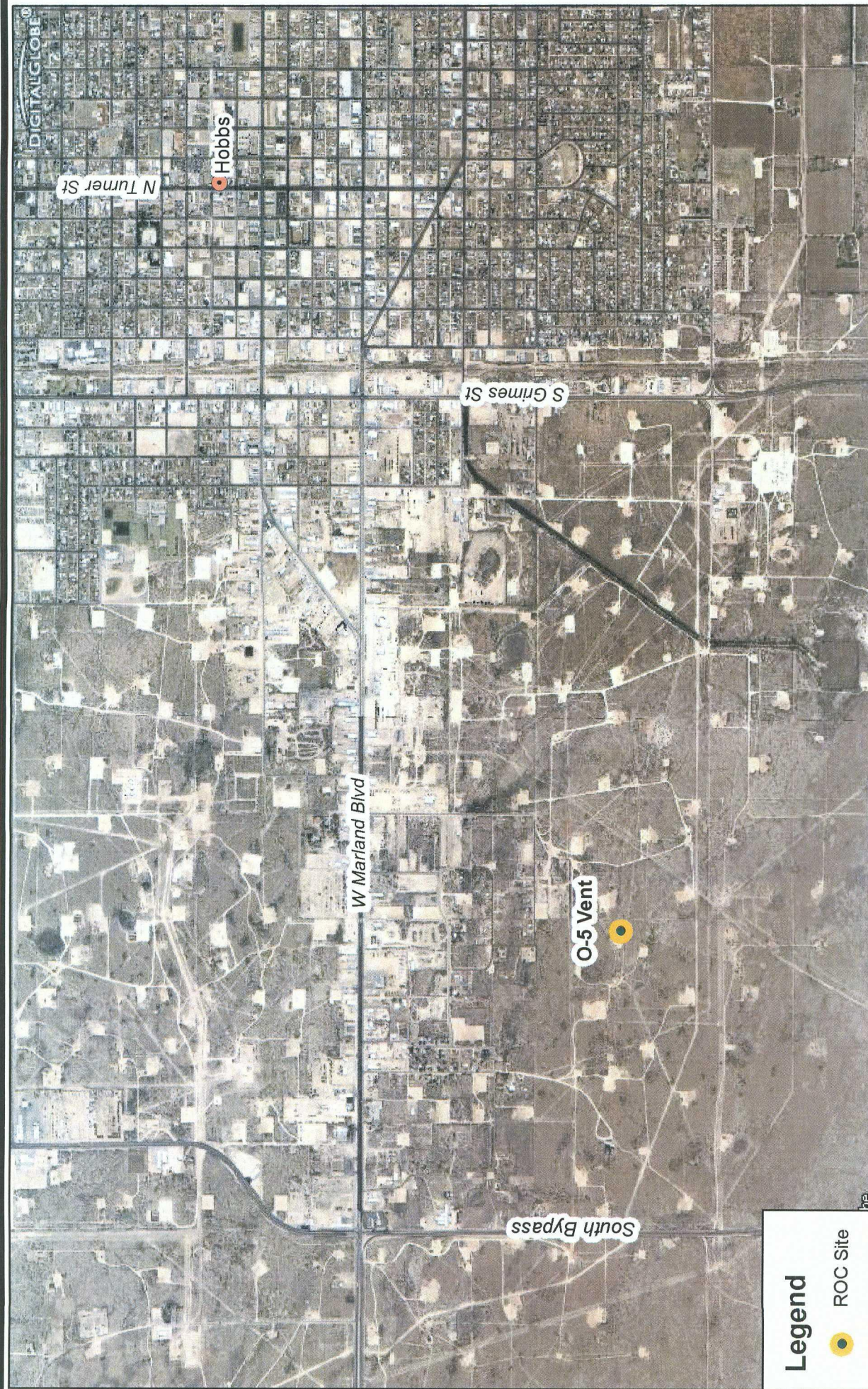
Total Depth 40

DEPTH	W.L.	Well Construction	Well Description
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R.T. Hicks Consultants, Ltd

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Ph: 505-266-5004 Fax: 505-266-0745



Legend



ROC Site

R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

Location of O-5 Vent relative to Hobbs, New Mexico

Plate 1

Rice Operating Company: Hobbs SWD System

January
2008



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

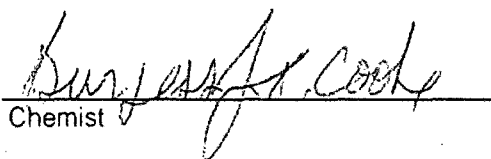
ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

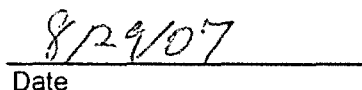
Receiving Date: 08/24/07
Reporting Date: 08/29/07
Project Number: NOT GIVEN
Project Name: HOBBS O-5 SITE
Project Location: T19S-R38E-SEC5 O ~ LEA COUNTY, NM

Sampling Date: 08/23/07
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: KS
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		08/29/07	08/29/07	08/29/07	08/29/07
H13172-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
Quality Control		0.091	0.093	0.094	0.265
True Value QC		0.100	0.100	0.100	0.300
% Recovery		90.9	92.9	94.0	88.3
Relative Percent Difference		2.1	1.8	0.6	0.2

METHOD: EPA SW-846 8260


Chemist


Date

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RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 08/24/07
Reporting Date: 08/30/07
Project Owner: NOT GIVEN
Project Name: HOBBS O-5 SITE
Project Location: T19S-R38E-SEC5 O~LEA COUNTY, NM

Sampling Date: 08/23/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: KS
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		08/30/07	08/30/07	08/30/07	08/30/07	08/27/07	08/29/07
H13172-1	MONITOR WELL #1	180	106	10.5	4.8	1,589	268
Quality Control		NR	50.6	51.6	1.91	1423	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	101	103	95.7	101	NR
Relative Percent Difference		NR	2.5	4.8	1.6	0.4	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	08/27/07	08/27/07	08/29/07	08/29/07	08/27/07	08/29/07
H13172-1	264	62.4	0	327	7.08	968
Quality Control	500	26.1	NR	964	6.98	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	104	NR	96.4	99.7	NR
Relative Percent Difference	< 0.1	2.8	NR	2.6	0.6	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Chefist


Date

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Cardinal Laboratories, Inc. 101 East Marland - Hobbs, New Mexico 88240 Tel (505) 393-2326 Fax (505) 393-2476				CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # _____											
Company Name: RICE Operating Company Project Manager: Kristin Faris-Pope, Project Scientist Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 Phone #: (505) 393-9174 Fax #: (505) 397-1471				ANALYSIS REQUEST (Circle or Specify Method No.)											
Project Name: Hobbs O-5 Site Project Location: T19S-R38E-Sec5 O ~ Lea County - New Mexico Sampler Signature: <i>Rozanne Johnson</i> (505) 631-9310 rozanne@valomet.com				Turn Around Time ~ 24 Hours											
FIELD CODE H13172-1 Monitor Well #1				MATRIX WATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> AIR <input type="checkbox"/> SLUDGE <input type="checkbox"/>				PRESERVATIVE METHOD HCL (2 40ml VOA) <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> NaHSO ₄ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> ICE (1-Liter HDPE) <input type="checkbox"/> NONE <input type="checkbox"/>				SAMPLING DATE (2007) 8-23 TIME 14:55			
LAB # (LAB USE ONLY)				(G)rab or (C)omp G				# CONTAINERS 3				BTEX 8021B/602 <input checked="" type="checkbox"/> MTBE 8021B/602 <input type="checkbox"/> TPH 418.1/TX1005 / TX1005 Extended (C35) <input type="checkbox"/> PAH 8270C <input type="checkbox"/> Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 <input type="checkbox"/> TCLP Metals Ag As Ba Cd Cr Pb Se Hg <input type="checkbox"/> TCLP Volatiles <input type="checkbox"/> TCLP Semi Volatiles <input type="checkbox"/> TCLP Pesticides <input type="checkbox"/> RCI <input type="checkbox"/> GC/MS Vol. 8260B/624 <input type="checkbox"/> GC/MS Semi. Vol. 8270C/625 <input type="checkbox"/> PCB's 8082/608 <input type="checkbox"/> Pesticides 8081A/608 <input type="checkbox"/> BOD, TSS, pH <input type="checkbox"/> Moisture Content <input type="checkbox"/> Cations (Ca, Mg, Na, K) <input checked="" type="checkbox"/> Anions (Cl, SO ₄ , CO ₃ , HCO ₃) <input checked="" type="checkbox"/> Total Dissolved Solids <input checked="" type="checkbox"/> Chlorides <input type="checkbox"/>			
Relinquished by: <i>Rozanne Johnson</i> Date: 8-24-07 Time: 4:03				Received by: <i>Brite Duppe</i> Date: _____ Time: _____				Phone Results <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Fax Results <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Relinquished by: _____ Date: _____ Time: _____				Received By: (Laboratory Staff) Date: _____ Time: _____				REMARKS:				Additional Fax Number:			
Delivered By: (Circle One)				Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				CHECKED BY: <i>KS</i> (Initials)							
Sampler - UPS - Bus - Other:															

Cardinal Laboratories, Inc.

101 East Marland - Hobbs, New
Mexico 88240
Tel (505) 393-2326
Fax (505) 393-2476

Company Name: RICE Operating Company		BILL TO Company: RICE Operating Company		PO#	
Project Manager: Kristin Farris-Pope, Project Scientist		Address: 122 W Taylor Street ~ Hobbs, New Mexico 88240		(Street, City, Zip)	
Address: 122 W Taylor Street ~ Hobbs, New Mexico 88240		Phone #: (505) 393-9174		Fax #: (505) 397-1471	
Phone #: (505) 393-9174		Fax #: (505) 397-1471			
Project #: (505) 393-9174		Project Name: Hobbs O-5 Site			
Project Location: T19S-R38E-Sec5 O ~ Lea County - New Mexico		Sampler Signature: 		Rozanne Johnson (505)631-9310 rozanne@ovaljournal.com	

[illegible]

Relinquished by: <u>Rozanne Johnson</u>	Date: <u>10-2-2007</u>	Time: <u>14:45</u>										
Relinquished by:	Date:	Time:										
Delivered By: (Circle One) <u>Sampler</u>	UPS - Bus - Other:											
Received by: <u>Don Garner</u>	Date: <u>10/2/07</u>	Time: <u>3:47 pm</u>										
Received By: (Laboratory Staff)	Date:	Time:										
Sample Condition	CHECKED BY:											
<table border="1"> <tr> <td rowspan="2">Cool</td> <td>Yes</td> <td>No</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td rowspan="2">Intact</td> <td>Yes</td> <td>No</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Cool	Yes	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intact	Yes	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(Initials) <u>SPB</u>	
Cool		Yes	No									
	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Intact	Yes	No										
	<input checked="" type="checkbox"/>	<input type="checkbox"/>										

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Phone Results	Yes	No
Fax Results	Yes	No
Additional Fax Number:		

REMARKS:

Email Results to: kacope@nicsawd.com
weigh@nicsawd.com
rozanina@va.cba.net



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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 10/02/07
Reporting Date: 10/05/07
Project Number: NOT GIVEN
Project Name: HOBBS O-5 SITE
Project Location: T19S-R38E-SEC5 O - LEA COUNTY, NM

Sampling Date: 09/27/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		10/04/07	10/04/07	10/04/07	10/04/07
H13418-1	MONITOR WELL #1	0.002	<0.001	<0.001	<0.003
Quality Control		0.105	0.102	0.101	0.103
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	102	101	103
Relative Percent Difference		1.7	<0.1	0.9	<0.1

METHOD: EPA SW-846 8021B

Chemist

Date

H13418b Rice

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RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 10/02/07
Reporting Date: 10/04/07
Project Owner: NOT GIVEN
Project Name: HOBBS O-5 SITE
Project Location: T19S-R38E-SEC5 O~LEA COUNTY, NM

Sampling Date: 09/27/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: HM/KS

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:		10/03/07	10/02/07	10/02/07	10/02/07	10/03/07	10/03/07
H13418-1	MONITOR WELL #1	183	129	19.4	5.14	1,607	380
Quality Control		NR	51.9	49.2	1.91	9,770	NR
True Value QC		NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	104	98.4	95.7	97.7	NR
Relative Percent Difference		NR	2.5	3.2	1.6	0.2	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	10/03/07	10/03/07	10/03/07	10/03/07	10/03/07	10/03/07
H13418-1	260	57.6	0	464	7.27	963
Quality Control	500	27.8	NR	1000	7.01	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	111	NR	100	100	NR
Relative Percent Difference	< 0.1	2.6	NR	1.3	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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[Signature]
Chemist

10-08-07
Date

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RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 10/22/07
Reporting Date: 10/26/07
Project Number: NOT GIVEN
Project Name: HOBBS O-5 SITE
Project Location: T19S-R38E-SEC5 O~LEA COUNTY, NM

Sampling Date: 10/19/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: HM/KS

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:		10/26/07	10/25/07	10/25/07	10/25/07	10/24/07	10/24/07
H13554-1	MONITOR WELL #1	190	124	31.5	4.51	1,690	380
Quality Control		NR	49.2	51.6	2.73	1,386	NR
True Value QC		NR	50.0	50.0	3.00	1,404	NR
% Recovery		NR	98.4	103	91.0	98.7	NR
Relative Percent Difference		NR	< 0.1	< 0.1	6.7	1.3	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	10/25/07	10/26/07	10/24/07	10/24/07	10/24/07	10/24/07
H13554-1	296	59.3	0	464	7.35	1,052
Quality Control	500	23.5	NR	1000	6.97	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	93.9	NR	100	99.6	NR
Relative Percent Difference	2.0	12.5	NR	1.2	0.1	NR

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

Kristin Dupont
Chemist

10/26/07
Date

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ARDINAL LABORATORIES

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RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
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FAX TO: (575) 397-1471

Receiving Date: 10/22/07
Reporting Date: 10/24/07
Project Number: NOT GIVEN
Project Name: HOBBS O-5 SITE
Project Location: T19S R38E SEC5 O - LEA COUNTY, NM

Sampling Date: 10/19/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		10/23/07	10/23/07	10/23/07	10/23/07
H13554-1	MONITOR WELL #1	0.003	0.001	<0.001	<0.003
Quality Control		0.106	0.101	0.102	0.310
True Value QC		0.100	0.100	0.100	0.300
% Recovery		106	101	102	103
Relative Percent Difference		1.8	1.0	1.9	1.0

METHOD: EPA SW-846 8021B

Chemist

Date

H13554b Rice

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 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 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.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RICE Operating Company						BILL TO Company: RICE Operating Company						PO#:					
Project Manager: Kristin Farris-Pope, Project Scientist						Address: 122 W Taylor Street ~ Hobbs, New Mexico 88240						(Street, City, Zip)					
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240						Phone#: (505) 393-9174						Fax#: (505) 397-1471					
Phone #: (505) 393-9174						Fax #: (505) 397-1471											
Project #: T19S-R38E-Sect5 O ~ Lea County - New Mexico						Project Name: Hobbs O-5 Site											
Project Location: T19S-R38E-Sect5 O ~ Lea County - New Mexico						Sample Signature: <i>[Signature]</i>						Rozanne Johnson (505) 631-9310 rozanne@valjornet.com					
LAB # (LAB USE ONLY)						FIELD CODE						MATRIX					
Monitor Well #1						(G)rab or (C)omp						# CONTAINERS					
						WATER						PRESERVATIVE					
						SOIL						METHOD					
						AIR						SAMPLING					
						SLUDGE											
						HCL (2.40ml VOA)											
						HNO ₃											
						NaHSO ₄											
						H ₂ SO ₄											
						ICE (1-1 Liter HDPE)											
						NONE											
						DATE (2007)											
						TIME											
						MTBE 8021B/602											
						BTX 8021B/602											
						TPH 418.1/TX1005 / TX1005 Extended (C35)											
						PAH 8270C											
						Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7											
						TCLP Metals Ag As Ba Cd Cr Pb Se Hg											
						TCLP Volatiles											
						TCLP Semi Volatiles											
						TCLP Pesticides											
						RCI											
						GC/MS Vol. 8260B/624											
						GC/MS Semi. Vol. 8270C/625											
						PCB's 8082/608											
						Pesticides 8081A/608											
						BOD, TSS, pH											
						Moisture Content											
						Cations (Ca, Mg, Na, K)											
						Anions (Cl, SO ₄ , CO ₃ , HCO ₃)											
						Total Dissolved Solids											
						Chlorides											
						Turn Around Time ~ 24 Hours											