

BW - ____031____

**WATER
MONITORING
REPORTS**

Notes and Definitions

J	Estimated concentration. Analyte concentration between MDL and RL.
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 SMASCOI-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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Catelyn D. Keene, Lab Director/Quality Manager

June 24, 2019

GARY SCHUBERT

ETZ WATER STATION

PO BOX 6056

HOBBS, NM 88241

RE: SCHUBERT

Enclosed are the results of analyses for samples received by the laboratory on 06/10/19 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/qa/lab_accred_certif.html

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

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Coliort MNO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,



Celine D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

ETZ WATER STATION
PO BOX 6056
HOBBS NM, 88241

Project: SCHUBERT
Project Number: SCHUBERT #7 WELL
Project Manager: GARY SCHUBERT
Fax To:

Reported:
24-Jun-19 12:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BRINE WATER	H902012-01	Water	10-Jun-19 09:45	10-Jun-19 15:45
MONITOR WELL	H902012-02	Water	10-Jun-19 09:47	10-Jun-19 15:45
FRESH WATER	H902012-03	Water	10-Jun-19 09:50	10-Jun-19 15:45

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETZ WATER STATION
 PO BOX 6056
 HOBBS NM, 88241

 Project: SCHUBERT
 Project Number: SCHUBERT #7 WELL
 Project Manager: GARY SCHUBERT
 Fax To:

 Reported:
 24-Jun-19 12:00

BRINE WATER
H902012-01 (Water)

Analyte	Result	MEDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	83.0		5.00	mg/L	1	9060311	AC	12-Jun-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9060311	AC	12-Jun-19	310.1	
Chloride*	196000		4.00	mg/L	1	9060719	AC	13-Jun-19	4500-Cl-B	
Conductivity*	253000		1.00	uS/cm	1	9061112	AC	12-Jun-19	120.1	
pH*	6.94		0.100	pH Units	1	9061112	AC	12-Jun-19	150.1	
Sulfate*	4140		833	mg/L	83.33	9061107	AC	11-Jun-19	375.4	
TDS*	314000		5.00	mg/L	1	9060701	AC	13-Jun-19	160.1	
Alkalinity, Total*	68.0		4.00	mg/L	1	9060311	AC	12-Jun-19	310.1	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Calcium*	1570		20.0	mg/L	200	B906139	AES	18-Jun-19	EPA200.7	
Magnesium*	433		20.0	mg/L	200	B906139	AES	18-Jun-19	EPA200.7	
Potassium*	238	13.5	200	mg/L	200	B906139	AES	18-Jun-19	EPA200.7	
Sodium*	141000		1000	mg/L	1000	B906139	AES	19-Jun-19	EPA200.7	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETZ WATER STATION
 PO BOX 6056
 HOBBS NM, 88241

 Project: SCHUBERT
 Project Number: SCHUBERT #7 WELL
 Project Manager: GARY SCHUBERT
 Fax To:

 Reported:
 24-Jun-19 12:00

MONITOR WELL
H902012-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	215		5.00	mg/L	1	9060311	AC	12-Jun-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9060311	AC	12-Jun-19	310.1	
Chloride*	76.0		4.00	mg/L	1	9060719	AC	13-Jun-19	4500-Cl-B	
Conductivity*	660		1.00	uS/cm	1	9061112	AC	12-Jun-19	120.1	
pH*	7.94		0.100	pH Units	1	9061112	AC	12-Jun-19	150.1	
Sulfate*	60.8		10.0	mg/L	1	9061107	AC	11-Jun-19	375.4	
TDS*	435		5.00	mg/L	1	9060701	AC	13-Jun-19	160.1	
Alkalinity, Total*	176		4.00	mg/L	1	9060311	AC	12-Jun-19	310.1	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Calcium*	55.1		0.500	mg/L	5	B906139	AES	18-Jun-19	EPA200.7	
Magnesium*	17.0		0.500	mg/L	5	B906139	AES	18-Jun-19	EPA200.7	
Potassium*	2.27	0.339	5.00	mg/L	5	B906139	AES	18-Jun-19	EPA200.7	
Sodium*	69.0		5.00	mg/L	5	B906139	AES	18-Jun-19	EPA200.7	

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETZ WATER STATION
 PO BOX 6056
 HOBBS NM, 88241

 Project: SCHUBERT
 Project Number: SCHUBERT #7 WELL
 Project Manager: GARY SCHUBERT
 Fax To:

 Reported:
 24-Jun-19 12:00

FRESH WATER
H902012-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	220		5.00	mg/L	1	9060311	AC	12-Jun-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9060311	AC	12-Jun-19	310.1	
Chloride*	136		4.00	mg/L	1	9060719	AC	13-Jun-19	4500-Cl-B	
Conductivity*	1040		1.00	uS/cm	1	9061112	AC	12-Jun-19	120.1	
pH*	7.81		0.100	pH Units	1	9061112	AC	12-Jun-19	150.1	
Sulfate*	196		25.0	mg/L	2.5	9061197	AC	11-Jun-19	375.4	
TDS*	674		5.00	mg/L	1	9060701	AC	13-Jun-19	160.1	
Alkalinity, Total*	180		4.00	mg/L	1	9060311	AC	12-Jun-19	310.1	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Calcium*	101		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Magnesium*	27.9		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Potassium*	3.78	0.339	5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	J
Sodium*	97.8		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETZ WATER STATION
PO BOX 6056
HOBBS NM, 88241

Project: SCHUBERT
Project Number: SCHUBERT #7 WELL
Project Manager: GARY SCHUBERT
Fax To:

Reported:
24-Jun-19 12:00

Inorganic Compounds - Quality Control Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060311 - General Prep - Wet Chem										
Blank (9060311-BLK1)				Prepared & Analyzed: 04-Jun-19						
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							
LCS (9060311-BS1)				Prepared & Analyzed: 04-Jun-19						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			
LCS Dup (9060311-BSD1)				Prepared & Analyzed: 04-Jun-19						
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120	7.87	20	
Alkalinity, Total	270	10.0	mg/L	250		108	80-120	7.69	20	
Batch 9060701 - Filtration										
Blank (9060701-BLK1)				Prepared: 07-Jun-19 Analyzed: 11-Jun-19						
TDS	ND	5.00	mg/L							
LCS (9060701-BS1)				Prepared: 07-Jun-19 Analyzed: 11-Jun-19						
TDS	525		mg/L	527		99.6	80-120			
Duplicate (9060701-DUP1)				Source: H901974-01 Prepared: 07-Jun-19 Analyzed: 11-Jun-19						
TDS	430	5.00	mg/L		388			10.3	20	
Batch 9060719 - General Prep - Wet Chem										
Blank (9060719-BLK1)				Prepared: 07-Jun-19 Analyzed: 10-Jun-19						
Chloride	ND	4.00	mg/L							

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Cardinal Laboratories

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Celley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETZ WATER STATION
 PO BOX 6056
 HOBBS NM, 88241

 Project: SCHUBERT
 Project Number: SCHUBERT #7 WELL
 Project Manager: GARY SCHUBERT
 Fax To:

 Reported:
 24-Jun-19 12:00

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9060719 - General Prep - Wet Chem										
LCS (9060719-BS1)				Prepared: 07-Jun-19 Analyzed: 10-Jun-19						
Chloride	96.0	4.00	mg/L	100		96.0	80-120			
LCS Dup (9060719-BSD1)				Prepared: 07-Jun-19 Analyzed: 10-Jun-19						
Chloride	100	4.00	mg/L	100		100	80-120	4.08	20	
Batch 9061107 - General Prep - Wet Chem										
Blank (9061107-BLK1)				Prepared & Analyzed: 11-Jun-19						
Sulfate	ND	10.0	mg/L							
LCS (9061107-BS1)				Prepared & Analyzed: 11-Jun-19						
Sulfate	21.6	10.0	mg/L	20.0		108	80-120			
LCS Dup (9061107-BSD1)				Prepared & Analyzed: 11-Jun-19						
Sulfate	21.3	10.0	mg/L	20.0		106	80-120	1.54	20	
Batch 9061112 - General Prep - Wet Chem										
LCS (9061112-BS1)				Prepared: 11-Jun-19 Analyzed: 12-Jun-19						
Conductivity	91900		uS/cm	100000		91.9	80-120			
pH	7.09		pH Units	7.00		101	90-110			
Duplicate (9061112-DUP1)				Source: H902003-01 Prepared: 11-Jun-19 Analyzed: 12-Jun-19						
pH	9.01	0.100	pH Units		8.98			0.334	20	
Conductivity	11900	1.00	uS/cm		11000			0.273	20	

* = Accredited Analyte

Cardinal Laboratories

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETZ WATER STATION
PO BOX 6056
HOBBS NM, 88241

Project: SCHUBERT
Project Number: SCHUBERT #7 WELL
Project Manager: GARY SCHUBERT
Fax To:

Reported:
24-Jun-19 12:00

Total Recoverable Metals by ICP (E200.7) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%RBC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B906139 - Total Rec. 200.7/200.8/200.2
Blank (B906139-BLK1)

Prepared: 14-Jun-19 Analyzed: 18-Jun-19

Sodium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	0.121	1.00	mg/L							

LCS (B906139-BSD1)

Prepared: 14-Jun-19 Analyzed: 18-Jun-19

Sodium	3.56	1.00	mg/L	3.24		110	85-115			
Calcium	4.19	0.100	mg/L	4.00		105	85-115			
Potassium	8.47	1.00	mg/L	8.00		106	85-115			
Magnesium	20.5	0.100	mg/L	20.0		103	85-115			

LCS Dup (B906139-BSD1)

Prepared: 14-Jun-19 Analyzed: 18-Jun-19

Potassium	8.49	1.00	mg/L	8.00		106	85-115	0.168	20	
Calcium	4.18	0.100	mg/L	4.00		105	85-115	0.250	20	
Magnesium	20.6	0.100	mg/L	20.0		103	85-115	0.406	20	
Sodium	3.49	1.00	mg/L	3.24		108	85-115	2.06	20	

Batch B906147 - Total Rec. 200.7/200.8/200.2
Blank (B906147-BLK1)

Prepared: 17-Jun-19 Analyzed: 19-Jun-19

Sodium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
Potassium	0.222	1.00	mg/L							
Magnesium	ND	0.100	mg/L							

LCS (B906147-BSD1)

Prepared: 17-Jun-19 Analyzed: 19-Jun-19

Sodium	3.63	1.00	mg/L	3.24		112	85-115			
Potassium	8.34	1.00	mg/L	8.00		104	85-115			
Magnesium	20.2	0.100	mg/L	20.0		101	85-115			
Calcium	4.15	0.100	mg/L	4.00		104	85-115			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETZ WATER STATION
 PO BOX 6056
 HOBBS NM, 88241

 Project: SCHUBERT
 Project Number: SCHUBERT #7 WELL
 Project Manager: GARY SCHUBERT
 Fax To:

 Reported:
 24-Jun-19 12:00

Total Recoverable Metals by ICP (E200.7) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B906147 - Total Rec. 200.7/200.8/200.2

LCS Dup (B906147-BSD1)				Prepared 17-Jun-19	Analyzed 19-Jun-19					
Potassium	8.19	1.00	mg/L	8.00		102	85-115	1.81	20	
Magnesium	19.9	0.100	mg/L	20.0		99.3	85-115	1.67	20	
Sodium	3.48	1.00	mg/L	3.24		107	85-115	4.43	20	
Calcium	4.94	0.100	mg/L	4.00		101	85-115	2.61	20	

* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, August 25, 2009 10:01 AM
To: 'garymschubert@aol.com'
Subject: BW-31 MIT & August 17, 2009 Letter w/ Inquiry

Gary:

Good morning.

The recent MIT chart from the Formation MIT may be viewed and printed at <http://ocdimage.emnrd.state.nm.us/imaging/AEOrderFileView.aspx?appNo=pLWP0601059835> (click on the "MITs" folder). Your facilities (Brine well location and load-out station) looked good. The only comments from my inspection are: 1) Brine storage tanks must be bermed and lined (30-mil String Reinforced Linear Low-Density Polyethylene- LLDPE or LLDPE was recently identified as the liner of choice by OCD in the Pit Rule- Part 17) to contain 1 + 1/3 volume of a single tank or all interconnected tanks volume; I didn't notice any bermed tanks near the brine well, and assume that they are all fresh water. 2) Similarly, the 10 brine storage tanks at the load-out facility looked good, but there is some concern about the volume that the berm will contain in the event of a release from all interconnected tanks. Should the berm dimensions be expanded to address this requirement? 3) Some black tanks were sitting in a bermed unlined area at the load-out facility. I presume you are making plans to place them on a liner?

The OCD is in receipt of your brine production information and monitoring data from your letter dated August 17, 2009. .I will be adding a "Reports" folder from any monthly or quarterly reporting received; however, I think there is a provision in the BW-031 discharge permit that allows you to compile all of the year's data and send it to the OCD in the Annual Report. This would be most efficient for us and you. It is good that you are thinking about the way you keep your production records, etc., organized as this information should be incorporated into the annual report.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")

HRC, Inc.
P.O. Box 1606
Hobbs, NM 88241-6056
(575) 393-6662 (575) 393-6662 Fax

RECEIVED
2009 AUG 24 PM 1 37

August 17, 2009

Mr. Carl Chavez
Environmental Bureau Chief
Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, NM 87505

Re: BW - 301 31

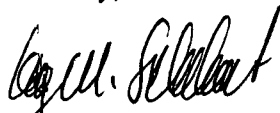
Mr. Chavez,

Please see attached information:

1. Copies of monthly brine production and fresh injection for the remainder of 2008 and up to the present of 2009.
2. Monitor well analytical.
3. Brine production sample analyticals.
4. Fresh (injection water) samples.

I understood that these are due for the previous year each January. If I am wrong and you want them monthly or quarterly, I will be happy to send them like that. Actually, it would be easy for us to send the production monthly when we are doing our billing and other reports. Please let me know what would work best for you. Thanks for your help.

Sincerely,



Gary M. Schubert

BW – 31

SCHUBERT 7 – WELL # 1

YEAR 2009

MONTH	BRINE PRODUCTION (BY Meter)	FRESH WATER INJECTED (By Meter)
January	29,196	23,750
February	17,626	19,038
March	8,385	9,521
April	11,213	10,376
May	16,182	16,145
June	16,742	19,045
July	23,102	26,381
August		
September		
October		
November		
December		
Total		

BW – 31

SCHUBERT 7 – WELL # 1

YEAR 2008

MONTH	BRINE PRODUCTION (BY Sales Receipts)	BRINE PRODUCTION (By Run Time)	FRESH WATER INJECTED (By Meter)
January	27,797	28,370	28,600
February	23,793	23,800	24,000
March	25,132	25,640	25,900
April	27,832	27,980	28,200
May	25,474	25,890	25,700
June	19,360	19,770	19,900
July	23,778	24,100	24,000
August	29,435	29,810	30,500
September	28,866	29,400	31,800
October	33,187	33,500	35,000
November	19,130	19,430	21,600
December	<u>17,788</u>	<u>18,300</u>	<u>20,900</u>
Totals	301,572	305,990	316,100



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

August 17, 2009

Gary Schubert
HRC
1720 North Turner
Hobbs, NM 88240

SCAUBERT 7 No. 1

Re: May-09 Sampling

Enclosed are the results of analyses for sample number H18014, received by the laboratory on 08/17/09 at 10:35 am.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Caley D. Keene
Laboratory Director

This report conforms with NELAP requirements.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

✓

ANALYTICAL RESULTS FOR
HRC
ATTN: GARY SCHUBERT
1720 N. TURNER
HOBBS, NM 88240

Receiving Date: 08/17/09
Reporting Date: 08/17/09
Project Owner: NOT GIVEN
Project Name: MAY-09 SAMPLING
Project Location: NOT GIVEN


Analysis Date: 08/17/08
Sampling Date: MAY-09
Sample Type: WATER
Sample Condition: INTACT @ 24°C
Sample Received By: AB
Analyzed By: AB

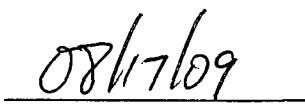
LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)
H18014-1	BRINE WEST TANKS	188,000
H18014-2	BRINE EAST TANKS	192,000
H18014-3	MONITOR WELL	760
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-Cl⁻B

Samples analyzed outside the EPA recommended hold time of 28 days.


Chemist


Date

H18014 HRC

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. 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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LABORATORIES

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ANALYTICAL RESULTS FOR
HRC
ATTN: GARY SCHUBERT
1720 N. TURNER
HOBBS, NM 88240

Receiving Date: 11/21/08
Reporting Date: 11/21/08
Project Owner: NOT GIVEN
Project Name: ET 2
Project Location: NOT GIVEN

Analysis Date: 11/21/08
Sampling Date: 11/02/06 - 11/10/08
Sample Type: GROUND & PRODUCED WATER
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/L)
H16373-1	LINE WATER NOV. 06	136,000
H16373-2	FRESH WATER <u>MW</u> NOV. 06	1,480
H16373-3	WEST TANK WATER MAY 07	146,000
H16373-4	FRESH WATER <u>MW</u> MAY 07	1,460
H16373-5	EAST TANK WATER NOV. 07	148,000
H16373-6	FRESH WATER <u>MW</u> NOV. 07	1,520
H16373-7	FILL LINE BRINE NOV. 08	134,000
H16373-8	FRESH WATER <u>MW</u> NOV. 08	820
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-ClB

[Signature]
Chemist

11-21-08
Date

H16373 HRC

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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

City of Hobbs Wastewater Reclamation Facility

MONTH	FLOW (MG)	TKN (mg/l)	NO3 -N (mg/l)	TOTAL-N (mg/l)	TDS (mg/l)	CL (mg/l)	BOD (mg/l)			FECALS (cfu/100 mls)		
							MAX	AVG	# TESTS	MAX	AVG	# TESTS
JAN	92.479	15.8	0.3	16.15	735	260	37.8	18.8	11	232	50.0	31
FEB	82.956	11.7	0.1	11.80	73	270	23.7	14.7	12	326	50.2	28
MAR	94.833	13.0	0.7	13.65	698	265	14.5	11.7	10	70	22.0	31
APR	92.17	9.4	1.9	11.27	787	285	26.2	16.0	12	92	23.3	30
MAY	95.5321	8.5	2.6	11.08	733	285	18.3	13.2	13	871	25.1	30
JUN	113.338	9.8	2.4	12.20	684	305	37.8	18.2	11	99	20.7	30
JUL	130.975	8.8	2.4	11.16	614	270	23.1	16.4	13	1280	34.7	30
AUG	106.499	7.8	0.9	8.67	723	260	22.2	14.8	12	144	21.0	30
SEP	99.145	9.6	1.33	10.93	585	205	21.8	13.7	13	148	7.4	30
OCT	103.187	4.8	5.9	10.66	789	271	22.0	15.3	11	50	6.2	31
NOV	98.374	13.3	4.1	17.42	763	270	19.7	14.4	11	180	6.7	30
DEC	113.372	10.8	1.5	12.31	591	205	35.4	9.7	13	143	1.5	31
TOTAL	1222.860											
AVG	101.905	10.28	2.00	12.27	642.4	262.6	25.2	14.7	12	302.9	22.4	30

INJECTION (FRESH)
H₂O

City of Hobbs Wastewater Reclamation Facility

JUNCTION BOX EFFLUENT (S&H FARMS) 2007

MONTH	FLOW (MG)	TKN (mg/l)	NO3 -N (mg/l)	TOTAL-N (mg/l)	TDS (mg/l)	CL (mg/l)	BOD (mg/l)			FECALS (cfu/100 mls)		
							MAX	AVG	# TESTS	MAX	AVG	# TESTS
JAN	111.344	14.7	2.36	17.06	655	205	14.3	9.3	12	11	1.6	31
FEB	95.589	16.0	3.34	19.34	669	220	12.7	7.0	12	32	1.3	28
MAR	104.956	12.1	2.70	14.80	624	210	27.9	15.4	12	41	4.5	31
APR	97.363	7.7	6.24	13.94	611	205	22.0	16.9	12	53	9.9	30
MAY	101.017	11.0	1.03	12.03	714	235	21.9	15.3	14	130	1.2	31
JUN	103.272	17.9	0.30	18.20	732	250	32.0	22.9	13	83	11.5	30
JUL	112.219	11.4	0.88	12.28	731	240	41.5	22.0	11	374	20.4	31
AUG	118.104	12.4	0.10	12.50	750	225	29.0	9.6	12	93	10.0	31
SEP	108.15	11.3	3.94	15.24	734	255	36.7	23.9	12	21	1.0	30
OCT	99.115	9.6	1.17	10.77	676	250	26.2	17.8	13	158	15.3	29
NOV	94.973	13.9	2.54	16.44	768	250	29.5	12.9	13	213	46.7	30
DEC	98.764	19.8	2.38	22.18	724	210	39.8	27.8	11	1688	109.2	31
TOTAL	1244.866											
AVG	103.739	13.15	2.25	15.40	699.0	229.6	27.8	16.7	12	241.4	19.4	30

Lab error on J-box sample-TKN/Nitrate values from Filter effluent. NMED notified.

City of Hobbs Wastewater Reclamation Facility

JUNCTION BOX EFFLUENT (S&H FARMS) 2008

MONTH	FLOW (MG)	TKN (mg/l)	NO3 -N (mg/l)	TOTAL-N (mg/l)	TDS (mg/l)	CL (mg/l)	BOD (mg/l)			FECALS (cfu/100 mls)		
							MAX	AVG	# TESTS	MAX	AVG	# TESTS
JAN	103.366	22.8	0.26	23.06	729	205	41.5	23.6	12	805	43.5	30
FEB	77.87	14.7	0.01	14.71	744	230	20.6	15.7	9	133	13.9	27
MAR	98.616	21.3	0.38	21.68	775	230	11.6	7.2	8	38	10.6	31
APR	91.515	14.0	0.01	14.01	821	250	25.1	17.0	12	215	27.0	30
MAY	100.292	14.8	0.01	14.81	838	280	20.4	15.5	12	124	22.0	30
JUN	112.632	11.4	0.01	11.41	836	265	24.8	13.8	12	45	1.0	30
JUL	107.466	13.5	0.01	13.51	717	230	22.5	15.1	13	158	18.0	31
AUG	118.255	12.4	0.01	12.41	765	280	18.5	13.4	12	352	22.7	30
SEP	90.087	11.6	0.01	11.61	687	235	19.8	13.1	12	392	27.8	30
OCT	91.561	17.2	0.01	17.21	724	275	16.5	10.4	16	185	55.1	31
NOV	101.27	24.1	0.01	24.11	828	275	20.4	15.4	15	254	69.7	29
DEC	106.897	24.6	1.07	25.67	805	255	26.9	15.8	15	55	4.0	31
TOTAL	1199.827											
AVG	99.986	16.87	0.15	17.02	772.4	250.8	22.4	14.7	12.3	229.7	26.3	30

City of Hobbs Wastewater Reclamation Facility

JUNCTION BOX EFFLUENT (S&H FARMS) 2009

MONTH	FLOW (MG)	TKN (mg/l)	NO3 -N (mg/l)	TOTAL-N (mg/l)	TDS (mg/l)	CL (mg/l)	BOD (mg/l)			FECALS (cfu/100 mls)		
							MAX	AVG	# TESTS	MAX	AVG	# TESTS
JAN	109.563	3.0	14.60	17.60	748	165	29.6	24.9	12	2048	21.6	37
FEB	89.000	29.6	0.00	29.60	874	280	36.5	29.9	12	864	52.4	30
MAR	99.997	32.1	0.01	32.11	871	290	44.7	24.9	12	256	34.5	31
APR	101.421	6.1	4.71	10.81	704	260	17.3	10.0	14	1196	32.2	30
MAY	105.744	1.1	4.80	5.90	828	185	12.5	7.8	14	313	26.4	31
JUN	112.440	1.4	4.39	5.79	750	270	8.7	7.2	13	648	17.9	30
JUL												
AUG												
SEP												
OCT												
NOV												
DEC												
TOTAL	618.165											
AVG	103.028	12.22	4.75	16.97	795.8	241.7	24.9	17.5	12.8	887.5	30.8	32