



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 03, 2013

Brice Gordon
Zorro Ranch
49 Zorro Rancho Rd.
Stanley, NM 87056
TEL: (505) 934-2809
FAX

RE: Drinking Water ZDC

OrderNo.: 1306581

Dear Brice Gordon:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/13/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306581

Date Reported: 7/3/2013

CLIENT: Zorro Ranch

Client Sample ID: RO MH

Project: Drinking Water ZDC

Collection Date: 6/13/2013 1:30:00 PM

Lab ID: 1306581-001

Matrix: AQUEOUS

Received Date: 6/13/2013 3:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							
Analyst: JRR							
Chloride	13	0.50		mg/L	1	6/14/2013 11:57:32 AM	R11340
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	6/14/2013 11:57:32 AM	R11340
Sulfate	64	10		mg/L	20	6/14/2013 12:34:45 PM	R11340
EPA METHOD 200.7: METALS							
Analyst: JLF							
Barium	ND	0.0020		mg/L	1	6/24/2013 5:06:17 PM	7976
Beryllium	ND	0.0020		mg/L	1	6/24/2013 5:06:17 PM	7976
Cadmium	ND	0.0020		mg/L	1	6/24/2013 5:06:17 PM	7976
Chromium	ND	0.0060		mg/L	1	6/24/2013 5:06:17 PM	7976
Nickel	ND	0.010		mg/L	1	6/24/2013 5:06:17 PM	7976
Sodium	110	5.0		mg/L	5	6/25/2013 1:17:49 PM	7976
Zinc	ND	0.010		mg/L	1	6/24/2013 5:06:17 PM	7976
EPA METHOD 200.7: METALS							
Analyst: JLF							
Aluminum	ND	0.10		mg/L	5	6/25/2013 1:34:05 PM	7976
Iron	0.050	0.020		mg/L	1	6/24/2013 5:08:39 PM	7976
Manganese	ND	0.0020		mg/L	1	6/24/2013 5:08:39 PM	7976
Silver	ND	0.0050		mg/L	1	6/24/2013 5:08:39 PM	7976
Zinc	ND	0.010		mg/L	1	6/24/2013 5:08:39 PM	7976
EPA 200.8: METALS							
Analyst: DBD							
Antimony	ND	0.0010		mg/L	1	6/25/2013 1:45:06 PM	7976
Arsenic	ND	0.0010		mg/L	1	6/25/2013 1:45:06 PM	7976
Selenium	ND	0.0010		mg/L	1	6/25/2013 1:45:06 PM	7976
Thallium	ND	0.0010		mg/L	1	6/25/2013 1:45:06 PM	7976
EPA METHOD 245.1: MERCURY							
Analyst: IDC							
Mercury	ND	0.00020		mg/L	1	6/18/2013 11:40:39 AM	7958
SM4500-H+B: PH							
Analyst: JML							
pH	8.22	1.68	H	pH units	1	6/14/2013 5:36:28 PM	R11333
SM2540C MOD: TOTAL DISSOLVED SOLIDS							
Analyst: KS							
Total Dissolved Solids	315	20.0		mg/L	1	6/19/2013 7:33:00 AM	7951

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1306581
 Date Reported: 7/3/2013

CLIENT: Zorro Ranch
 Project: Drinking Water ZDC
 Lab ID: 1306581-002

Client Sample ID: MH Kitchen
 Collection Date: 6/13/2013 1:40:00 PM
 Received Date: 6/13/2013 3:50:00 PM

Matrix: AQUEOUS

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							
Analyst: JRR							
Chloride	1.4	0.50		mg/L	1	6/14/2013 12:47:09 PM	R11340
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	6/14/2013 12:47:09 PM	R11340
Sulfate	3.0	0.50		mg/L	1	6/14/2013 12:47:09 PM	R11340
EPA METHOD 200.7: METALS							
Analyst: JLF							
Barium	ND	0.0020		mg/L	1	6/18/2013 3:00:58 PM	R11371
Beryllium	ND	0.0020		mg/L	1	6/18/2013 3:00:58 PM	R11371
Cadmium	ND	0.0020		mg/L	1	6/18/2013 3:00:58 PM	R11371
Chromium	ND	0.0060		mg/L	1	6/18/2013 3:00:58 PM	R11371
Nickel	ND	0.010		mg/L	1	6/18/2013 3:00:58 PM	R11371
Sodium	8.1	1.0		mg/L	1	6/18/2013 3:00:58 PM	R11371
Zinc	0.015	0.010		mg/L	1	6/18/2013 3:00:58 PM	R11371
EPA METHOD 200.7: METALS							
Analyst: JLF							
Aluminum	ND	0.020		mg/L	1	6/25/2013 2:11:54 PM	R11552
Iron	ND	0.020		mg/L	1	6/18/2013 3:03:21 PM	R11371
Manganese	ND	0.0020		mg/L	1	6/18/2013 3:03:21 PM	R11371
Silver	ND	0.0050		mg/L	1	6/18/2013 3:03:21 PM	R11371
Zinc	0.016	0.010		mg/L	1	6/18/2013 3:03:21 PM	R11371
EPA 200.8: METALS							
Analyst: DBD							
Antimony	ND	0.0010		mg/L	1	6/26/2013 1:48:43 PM	R11577
Arsenic	ND	0.0010		mg/L	1	6/26/2013 1:48:43 PM	R11577
Selenium	ND	0.0010		mg/L	1	6/26/2013 1:48:43 PM	R11577
Thallium	ND	0.0010		mg/L	1	6/26/2013 1:48:43 PM	R11577
EPA METHOD 245.1: MERCURY							
Analyst: IDC							
Mercury	ND	0.00020		mg/L	1	6/18/2013 11:53:09 AM	7959
SM4500-H+B: PH							
Analyst: JML							
pH	7.38	1.68	H	pH units	1	6/14/2013 5:40:42 PM	R11333
SM2540C MOD: TOTAL DISSOLVED SOLIDS							
Analyst: KS							
Total Dissolved Solids	31.0	20.0		mg/L	1	6/19/2013 7:33:00 AM	7951

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Zorro Ranch

Client Sample ID: MH Bath

Project: Drinking Water ZDC

Collection Date: 6/13/2013 1:30:00 PM

Lab ID: 1306581-003

Matrix: AQUEOUS

Received Date: 6/13/2013 3:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							
Analyst: JRR							
Chloride	1.5	0.50		mg/L	1	6/14/2013 1:11:58 PM	R11340
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	6/14/2013 1:11:58 PM	R11340
Sulfate	5.2	0.50		mg/L	1	6/14/2013 1:11:58 PM	R11340
EPA METHOD 200.7: METALS							
Analyst: JLF							
Barium	ND	0.0020		mg/L	1	6/18/2013 3:05:42 PM	R11371
Beryllium	ND	0.0020		mg/L	1	6/18/2013 3:05:42 PM	R11371
Cadmium	ND	0.0020		mg/L	1	6/18/2013 3:05:42 PM	R11371
Chromium	ND	0.0060		mg/L	1	6/18/2013 3:05:42 PM	R11371
Nickel	0.013	0.010		mg/L	1	6/18/2013 3:05:42 PM	R11371
Sodium	9.0	1.0		mg/L	1	6/18/2013 3:05:42 PM	R11371
Zinc	0.024	0.010		mg/L	1	6/18/2013 3:05:42 PM	R11371
EPA METHOD 200.7: METALS							
Analyst: JLF							
Aluminum	ND	0.020		mg/L	1	6/25/2013 2:14:12 PM	R11552
Iron	ND	0.020		mg/L	1	6/18/2013 3:08:04 PM	R11371
Manganese	ND	0.0020		mg/L	1	6/18/2013 3:08:04 PM	R11371
Silver	ND	0.0050		mg/L	1	6/18/2013 3:08:04 PM	R11371
Zinc	0.022	0.010		mg/L	1	6/18/2013 3:08:04 PM	R11371
EPA 200.8: METALS							
Analyst: DBD							
Antimony	ND	0.0010		mg/L	1	6/26/2013 1:53:01 PM	R11577
Arsenic	ND	0.0010		mg/L	1	6/26/2013 1:53:01 PM	R11577
Selenium	ND	0.0010		mg/L	1	6/26/2013 1:53:01 PM	R11577
Thallium	ND	0.0010		mg/L	1	6/26/2013 1:53:01 PM	R11577
EPA METHOD 245.1: MERCURY							
Analyst: IDC							
Mercury	ND	0.00020		mg/L	1	6/18/2013 11:54:55 AM	7959
SM4500-H+B: PH							
Analyst: JML							
pH	7.50	1.68	H	pH units	1	6/14/2013 5:45:23 PM	R11333
SM2540C MOD: TOTAL DISSOLVED SOLIDS							
Analyst: KS							
Total Dissolved Solids	25.0	20.0		mg/L	1	6/19/2013 7:33:00 AM	7951

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Zorro Ranch

Client Sample ID: RC Kitchen

Project: Drinking Water ZDC

Collection Date: 6/13/2013 1:30:00 PM

Lab ID: 1306581-004

Matrix: AQUEOUS

Received Date: 6/13/2013 3:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							
						Analyst: JRR	
Chloride	1.3	0.50		mg/L	1	6/14/2013 1:36:47 PM	R11340
Nitrogen, Nitrate (As N)	ND	0.10		mg/L	1	6/14/2013 1:36:47 PM	R11340
Sulfate	6.9	0.50		mg/L	1	6/14/2013 1:36:47 PM	R11340
EPA METHOD 200.7: METALS							
						Analyst: JLF	
Barium	0.010	0.0020		mg/L	1	6/18/2013 3:10:25 PM	R11371
Beryllium	ND	0.0020		mg/L	1	6/18/2013 3:10:25 PM	R11371
Cadmium	ND	0.0020		mg/L	1	6/18/2013 3:10:25 PM	R11371
Chromium	ND	0.0060		mg/L	1	6/18/2013 3:10:25 PM	R11371
Nickel	ND	0.010		mg/L	1	6/18/2013 3:10:25 PM	R11371
Sodium	28	1.0		mg/L	1	6/18/2013 3:10:25 PM	R11371
Zinc	0.033	0.010		mg/L	1	6/18/2013 3:10:25 PM	R11371
EPA METHOD 200.7: METALS							
						Analyst: JLF	
Aluminum	ND	0.020		mg/L	1	6/25/2013 2:16:29 PM	R11552
Iron	0.041	0.020		mg/L	1	6/18/2013 3:12:49 PM	R11371
Manganese	ND	0.0020		mg/L	1	6/18/2013 3:12:49 PM	R11371
Silver	ND	0.0050		mg/L	1	6/18/2013 3:12:49 PM	R11371
Zinc	0.029	0.010		mg/L	1	6/18/2013 3:12:49 PM	R11371
EPA 200.8: METALS							
						Analyst: DBD	
Antimony	ND	0.0010		mg/L	1	6/26/2013 1:57:20 PM	R11577
Arsenic	ND	0.0010		mg/L	1	6/26/2013 1:57:20 PM	R11577
Selenium	ND	0.0010		mg/L	1	6/26/2013 1:57:20 PM	R11577
Thallium	ND	0.0010		mg/L	1	6/26/2013 1:57:20 PM	R11577
EPA METHOD 245.1: MERCURY							
						Analyst: IDC	
Mercury	ND	0.00020		mg/L	1	6/18/2013 11:56:41 AM	7959
SM4500-H+B: PH							
						Analyst: JML	
pH	7.58	1.68	H	pH units	1	6/14/2013 5:49:42 PM	R11333
SM2540C MOD: TOTAL DISSOLVED SOLIDS							
						Analyst: KS	
Total Dissolved Solids	32.0	20.0		mg/L	1	6/19/2013 7:33:00 AM	7951

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit

Chain-of-Custody Record

Client: Reno Ranch

Turn-Around Time:
 Standard Rush

Mailing Address: 49 Reno Ranch Rd

Project Name: Drinking Water ZDC

Phone #: 505 934 8809

Project #:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation:
 NELAP Other

EDD (Type)

Project Manager: Brice Cooper
 Sampler: Brice Cooper
 Office: Yes No
 Sample Temperature: 22.3

Date: 6/13 Time: 1:30 Matrix: Aq Sample Request ID: RD MH

Container Type and #: Preservative Type: HEAL No: 1306581-01

6/13 1:40 Aq UH Kitchen

-001

6/13 1:30 Aq UH Bath

-002

6/13 1:30 Aq RC Kitchen

-003

6/13 1:30 Aq RC Kitchen

-004

Date: 6/13 Time: 5:50 Relinquished by: B. Cooper

Received by: [Signature] Date: 6/13/13
 Relinquished by: [Signature] Date: 1:55

Remarks:																					
	BTEX + MTBE + TMB's (8021)																				
	BTEX + MTBE + TPH (Gas only)																				
	TPH 8015B (GRO / DRO / MRO)																				
	TPH (Method 418.1)																				
	EDB (Method 504.1)																				
	PAH's (8310 or 8270 SIMS)																				
	RCRA 8 Metals																				
	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)																				
	8081 Pesticides / 8082 PCB's																				
	8260B (VOA)																				
	8270 (Semi-VOA)																				
	Secondary Contaminants																				
	Heavy Metals DW																				
	Nitrates																				
	Air Bubbles (Y or N)																				



HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Sample Log-In Check List

Client Name: ZORRO RANCH

Work Order Number: 1306581

RcptNo: 1

Received by/date: AT 06/13/13

Logged By: Michelle Garcia 6/13/2013 3:50:00 PM *Michelle Garcia*

Completed By: Michelle Garcia 6/13/2013 4:24:29 PM *Michelle Garcia*

Reviewed By: IO 06/14/13

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Client

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C? Yes No NA
- 6. Sample(s) in proper container(s)? Not required Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: 11 or >12 unless noted)

Adjusted? No

Checked by: mg

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	22.3	Good	Not Present			