



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

February 22, 2022

Ryan Righetti
San Miguel County
P.O. Box 426
Norwood, CO 81423

Re: Norwood Pit, Permit No. M-1981-154, Notice of Complaint

Dear Mr. Righetti,

On Wednesday February 16, 2022 the Division of Reclamation, Mining and Safety (Division) received a citizen complaint regarding possible groundwater contamination. The complaint alleges the contamination of the privately owned well is a result of the nearby gravel operations including the United Pit, Permit No. M-1988-037 and the Norwood Pit, Permit No. M-1981-154. The complaint included analytic sample results (enclosed) performed by Green Analytical in Durango, CO.

Please review the enclosed water quality information, prepare and submit a response, in writing, to the Division to address these allegations. If you have any questions, comments or concerns, please feel free to contact me at the Division's Grand Junction Field Office, by phone at 303-866-3567 Ext. 8187 or by email at lucas.west@state.co.us.

Sincerely,

Lucas West
Environmental Protection Specialist
Division of Reclamation, Mining and Safety

Encl: Water Quality Sample Results, Green Analytical

Cc: Travis Marshall, DRMS
Mary Gaston, Concerned Citizen





75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

09 February 2022

Mary Ann Gaston
Gaston, Mary Ann
1280 CR 442 N
Norwood, CO 81423
RE: Pkg 1

Enclosed are the results of analyses for samples received by the laboratory on 02/01/22 12:50. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-13

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-21-14



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Gaston, Mary Ann
1280 CR 442 N
Norwood CO, 81423

Project: Pkg 1
Project Name / Number: New Well 60' -100'
Project Manager: Mary Ann Gaston

Reported:
02/09/22 12:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Water Faucet	2202018-01	Water	01/31/22 14:00	02/01/22 12:50	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Gaston, Mary Ann
1280 CR 442 N
Norwood CO, 81423

Project: Pkg 1
Project Name / Number: New Well 60' -100'
Project Manager: Mary Ann Gaston

Reported:
02/09/22 12:01

Water Faucet

2202018-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Alkalinity, Bicarbonate as CaCO ₃ *	484	10.0	2.27	mg/L	2	02/03/22 09:20	2320 B		VJW
Alkalinity, Carbonate as CaCO ₃ *	<10.0	10.0	2.27	mg/L	2	02/03/22 09:20	2320 B		VJW
Alkalinity, Hydroxide as CaCO ₃ *	<10.0	10.0	2.27	mg/L	2	02/03/22 09:20	2320 B		VJW
Alkalinity, Total as CaCO ₃ *	484	10.0	2.27	mg/L	2	02/03/22 09:20	2320 B		VJW
Chloride*	171	5.00	0.152	mg/L	5	02/07/22 13:13	EPA300.0		AES
Conductivity*	5140	1.00		umho/cm @ 25.0°C	1	02/02/22 13:35	2510 B		VJW
Fluoride*	<0.500	0.500	0.0486	mg/L	5	02/07/22 13:13	EPA300.0		AES
pH*	7.22			pH Units	1	02/02/22 13:35	EPA150.1		VJW
pH Temperature, degrees C	19.4			pH Units	1	02/02/22 13:35	EPA150.1		VJW
Total Dissolved Solids*	4860	10.0		mg/L	1	02/02/22 11:35	EPA160.1		VJW
Sulfate*	2570	100	12.4	mg/L	100	02/07/22 19:41	EPA300.0		AES

Total Recoverable Metals by ICP (E200.7)

Calcium*	515	0.500	0.192	mg/L	5	02/08/22 18:02	EPA200.7		AES
Iron*	8.99	0.250	0.189	mg/L	5	02/08/22 18:02	EPA200.7		AES
Magnesium*	344	0.500	0.148	mg/L	5	02/08/22 18:02	EPA200.7		AES
Hardness	2700	3.31	1.09	mg/L	5	02/08/22 18:02	2340 B		AES
Potassium*	15.4	5.00	0.888	mg/L	5	02/08/22 18:02	EPA200.7		AES
Sodium*	432	5.00	0.380	mg/L	5	02/08/22 18:02	EPA200.7		AES
Strontium*	10.7	0.500	0.091	mg/L	5	02/08/22 18:02	EPA200.7		AES

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Gaston, Mary Ann
1280 CR 442 N
Norwood CO, 81423

Project: Pkg 1
Project Name / Number: New Well 60'-100'
Project Manager: Mary Ann Gaston

Reported:
02/09/22 12:01

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B220312 - General Prep - Wet Chem

Blank (B220312-BLK1)

Prepared & Analyzed: 02/02/22

Total Dissolved Solids	ND	10.0	mg/L
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Duplicate (B220312-DUP1)

Source: 2202001-01

Prepared & Analyzed: 02/02/22

Total Dissolved Solids	1080	10.0	mg/L	1080	0.918	20
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Reference (B220312-SRM1)

Prepared & Analyzed: 02/02/22

Total Dissolved Solids	635	10.0	mg/L	600	106	85-115
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Batch B220314 - General Prep - Wet Chem

Blank (B220314-BLK1)

Prepared: 02/02/22 Analyzed: 02/03/22

Alkalinity, Bicarbonate as CaCO ₃	ND	10.0	mg/L
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L
Alkalinity, Total as CaCO ₃	ND	10.0	mg/L

LCS (B220314-BS1)

Prepared: 02/02/22 Analyzed: 02/03/22

Alkalinity, Bicarbonate as CaCO ₃	104	10.0	mg/L	100	104	85-115
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L			85-115
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L			85-115
Alkalinity, Total as CaCO ₃	104	10.0	mg/L	100	104	85-115

LCS Dup (B220314-BSD1)

Prepared: 02/02/22 Analyzed: 02/03/22

Alkalinity, Bicarbonate as CaCO ₃	103	10.0	mg/L	100	103	85-115	0.966	20
Alkalinity, Carbonate as CaCO ₃	ND	10.0	mg/L			85-115		20
Alkalinity, Hydroxide as CaCO ₃	ND	10.0	mg/L			85-115		20
Alkalinity, Total as CaCO ₃	103	10.0	mg/L	100	103	85-115	0.966	20

Batch B220321 - General Prep - Wet Chem

Duplicate (B220321-DUP1)

Source: 2202018-01

Prepared & Analyzed: 02/02/22

pH	7.27	pH Units	7.22	0.690	20
pH Temperature, degrees C	19.6	pH Units	19.4	1.03	200

Reference (B220321-SRM1)

Prepared & Analyzed: 02/02/22

pH	7.00	pH Units	7.00	100	98.57-101.42
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Batch B220322 - General Prep - Wet Chem

Duplicate (B220322-DUP1)

Source: 2202018-01

Prepared & Analyzed: 02/02/22

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Gaston, Mary Ann
1280 CR 442 N
Norwood CO, 81423

Project: Pkg 1
Project Name / Number: New Well 60' -100'
Project Manager: Mary Ann Gaston

Reported:
02/09/22 12:01

**General Chemistry - Quality Control
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B220322 - General Prep - Wet Chem (Continued)

Duplicate (B220322-DUP1) (Continued)

Source: 2202018-01 Prepared & Analyzed: 02/02/22

Conductivity	5150	1.00	umho/cm @ 25.0°C	5140	0.194	20
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Reference (B220322-SRM1)

Prepared & Analyzed: 02/02/22

Conductivity	1030	1.00	umho/cm @ 25.0°C	1000	103	90-110
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Batch B220338 - IC- Ion Chromatograph

Blank (B220338-BLK1)

Prepared: 02/04/22 Analyzed: 02/07/22

Chloride	ND	1.00	mg/L
Fluoride	ND	0.100	mg/L
Sulfate	ND	1.00	mg/L

LCS (B220338-BS1)

Prepared: 02/04/22 Analyzed: 02/07/22

Chloride	24.8	1.00	mg/L	25.0	99.3	90-110
Fluoride	2.42	0.100	mg/L	2.50	97.0	90-110
Sulfate	23.6	1.00	mg/L	25.0	94.3	90-110

LCS Dup (B220338-BSD1)

Prepared: 02/04/22 Analyzed: 02/07/22

Chloride	24.7	1.00	mg/L	25.0	98.9	90-110	0.404	20
Fluoride	2.42	0.100	mg/L	2.50	96.7	90-110	0.248	20
Sulfate	23.5	1.00	mg/L	25.0	94.2	90-110	0.191	20

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Debbie Zufelt

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Gaston, Mary Ann
1280 CR 442 N
Norwood CO, 81423

Project: Pkg 1
Project Name / Number: New Well 60' -100'
Project Manager: Mary Ann Gaston

Reported:
02/09/22 12:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B220346 - Total Rec. 200.7/200.8/200.2

Blank (B220346-BLK1)

Prepared: 02/07/22 Analyzed: 02/08/22

Calcium	ND	0.100	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	0.100	mg/L
Potassium	ND	1.00	mg/L
Sodium	ND	1.00	mg/L
Strontium	ND	0.100	mg/L

LCS (B220346-BS1)

Prepared: 02/07/22 Analyzed: 02/08/22

Calcium	1.92	0.100	mg/L	2.00	95.8	85-115
Iron	1.88	0.050	mg/L	2.00	94.2	85-115
Magnesium	9.78	0.100	mg/L	10.0	97.8	85-115
Potassium	3.95	1.00	mg/L	4.00	98.8	85-115
Sodium	1.58	1.00	mg/L	1.62	97.3	85-115
Strontium	1.89	0.100	mg/L	2.00	94.5	85-115

LCS Dup (B220346-BSD1)

Prepared: 02/07/22 Analyzed: 02/08/22

Calcium	1.86	0.100	mg/L	2.00	93.2	85-115	2.71	20
Iron	1.85	0.050	mg/L	2.00	92.5	85-115	1.79	20
Magnesium	9.60	0.100	mg/L	10.0	96.0	85-115	1.91	20
Potassium	3.84	1.00	mg/L	4.00	95.9	85-115	2.98	20
Sodium	1.52	1.00	mg/L	1.62	93.9	85-115	3.52	20
Strontium	1.88	0.100	mg/L	2.00	94.0	85-115	0.529	20

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Debbie Zufelt, Reports Manager

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Gaston, Mary Ann
1280 CR 442 N
Norwood CO, 81423

Project: Pkg 1
Project Name / Number: New Well 60' -100'
Project Manager: Mary Ann Gaston

Reported:
02/09/22 12:01

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
RPD Relative Percent Difference
LCS Laboratory Control Sample (Blank Spike)
RL Report Limit
MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Re: Relinquished Date and Time

Mary Ann Gaston <mgaston10@gmail.com>

Wed 2/2/2022 10:57 AM

To: Green Analytical <receiving@greenanalytical.com>

I relinquished my well water sample on Monday, January 31, 2022 at a UPS shipping site at Norwood Hardware in Norwood, CO

Mary Ann Gaston

PO BOX 191, Norwood, CO 81423

970-708-0001

On Wed, Feb 2, 2022 at 10:52 AM Mary Ann Gaston <mgaston10@gmail.com> wrote:

I thought you were sending me a form to sign. Please let me know.

Mary Ann

On Wed, Feb 2, 2022 at 9:15 AM Green Analytical <receiving@greenanalytical.com> wrote:

Hello. If you could send an email, that we talked about on the phone yesterday, stating that you Relinquished the Samples to UPS on the date and time would be great!

Thank you!

Linda Gumper

Green Analytical Laboratories

75 Suttle St, Durango, CO 81303

(970)247-4220