

STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

CC&V - Monthly GVMW-25 update

Ronald Parratt <Ronald.Parratt@newmont.com>
To: "Eschberger - DNR, Amy" <amy.eschberger@state.co.us>
Cc: Justin Raglin <Justin.Raglin@newmont.com>

Thu, May 5, 2022 at 4:08 PM

Good afternoon Ms. Eschberger,

Please see the attached graphs and analytical report for Grassy Valley monitoring well GVMW-25 for the month of April, 2022.

Best Regards,

Ron

Ronald Parratt

Site Water Coordinator

Water & Energy Specialist



100 North 3rd Street

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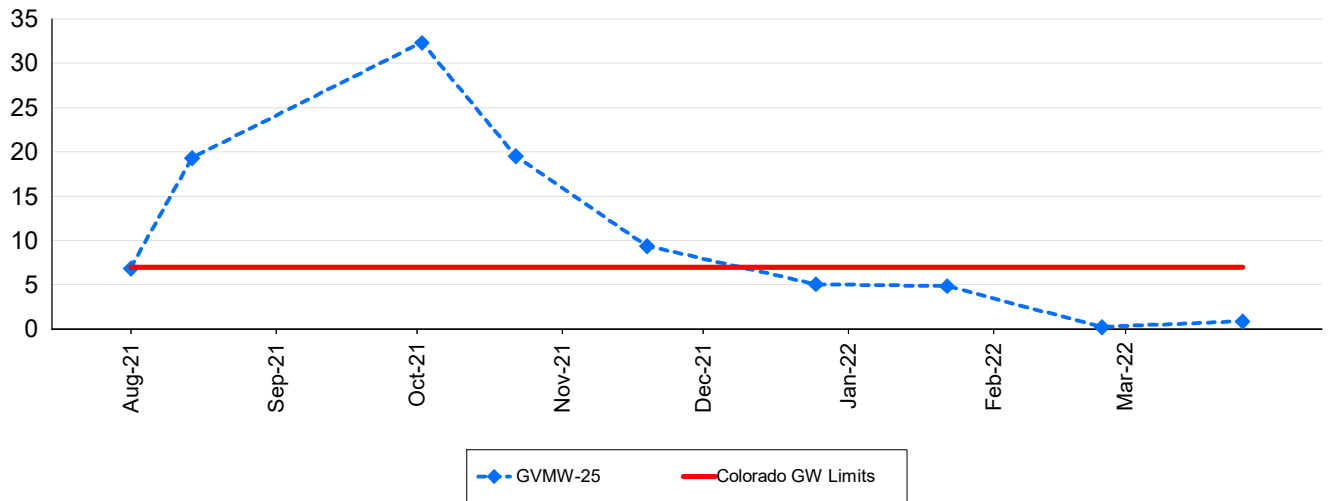
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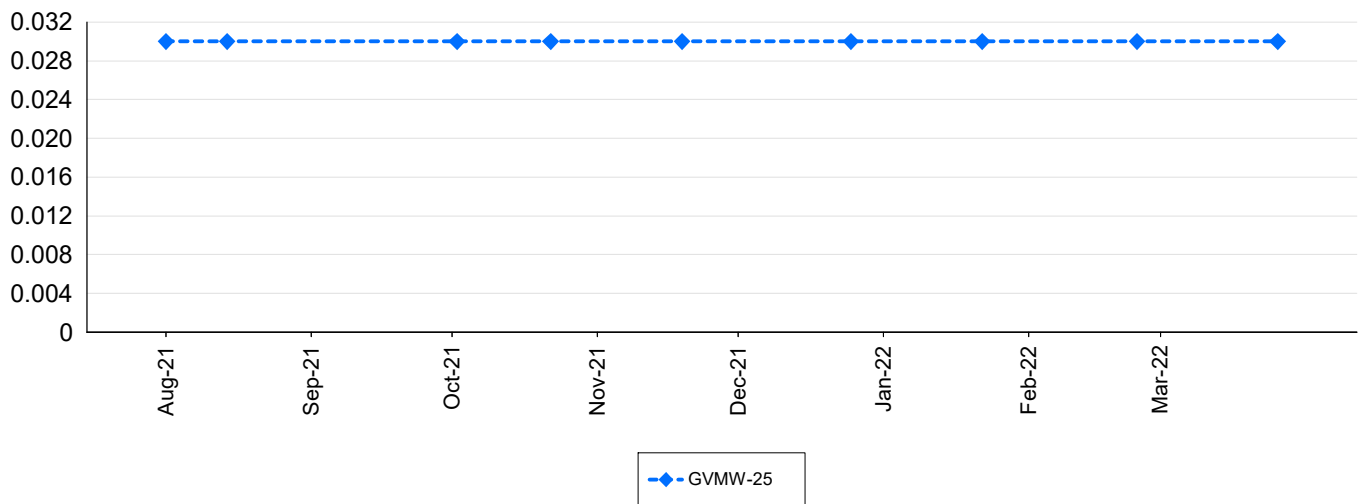
GVMW-25_April_2022_Update_Report.pdf

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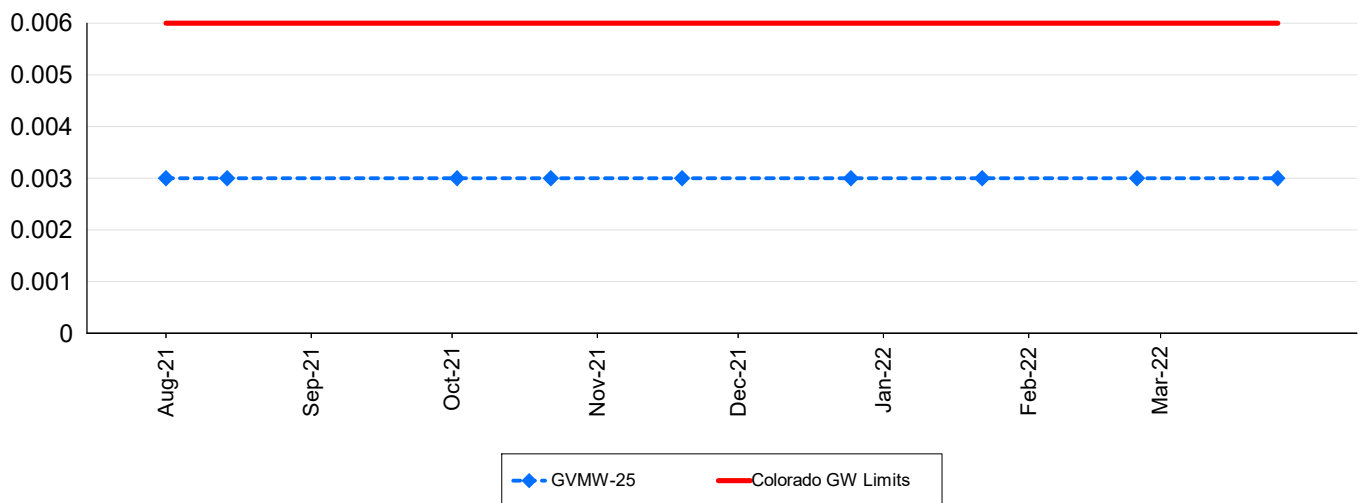
: Aluminium - Dissolved (mg/L)



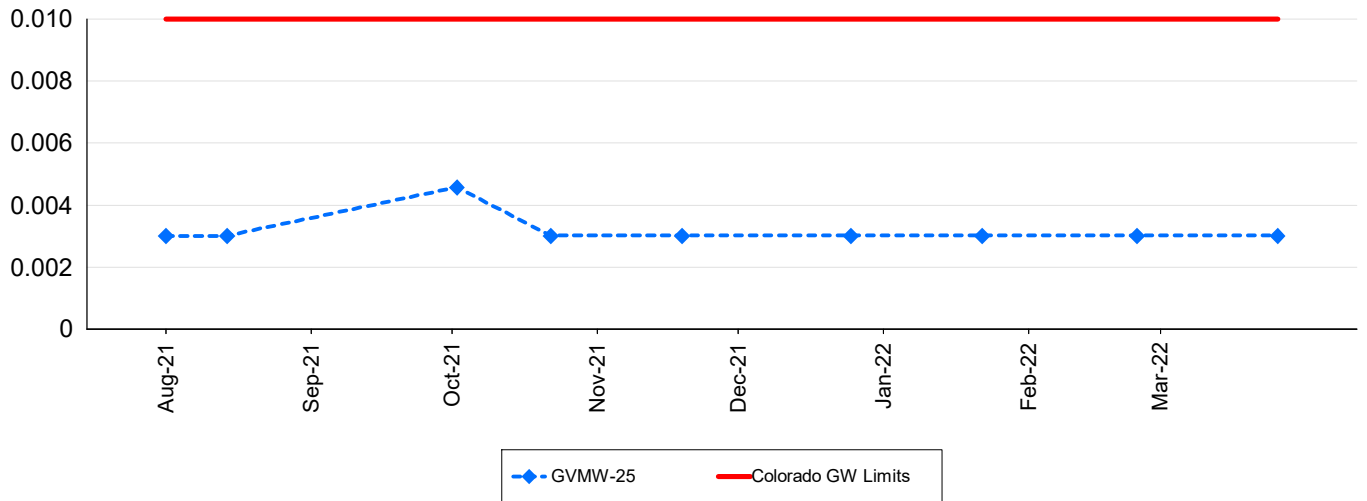
: Ammonia (mg/L)



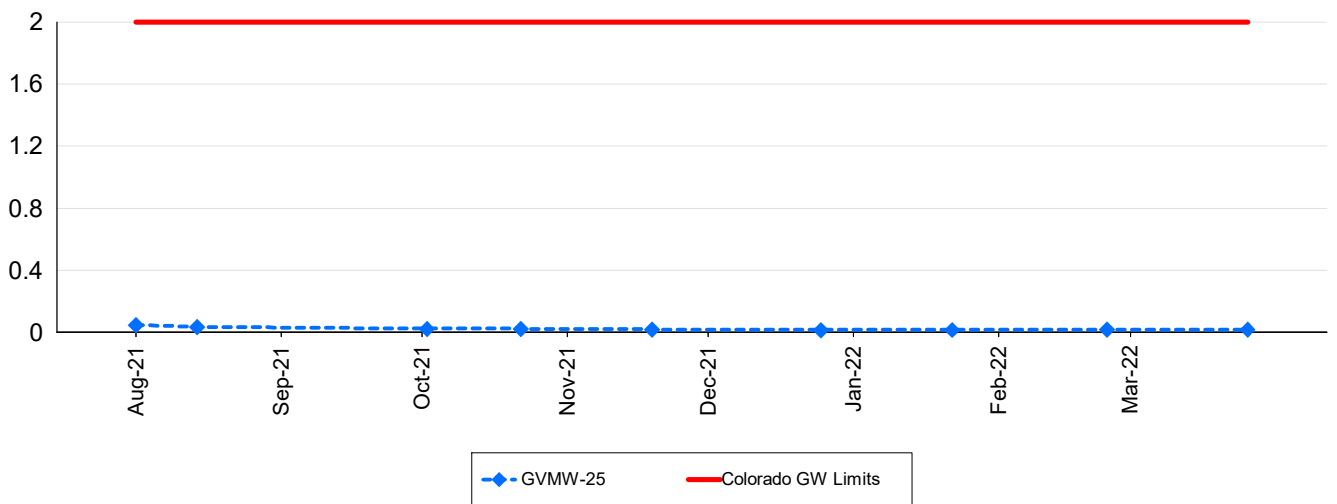
: Antimony - Dissolved (mg/L)



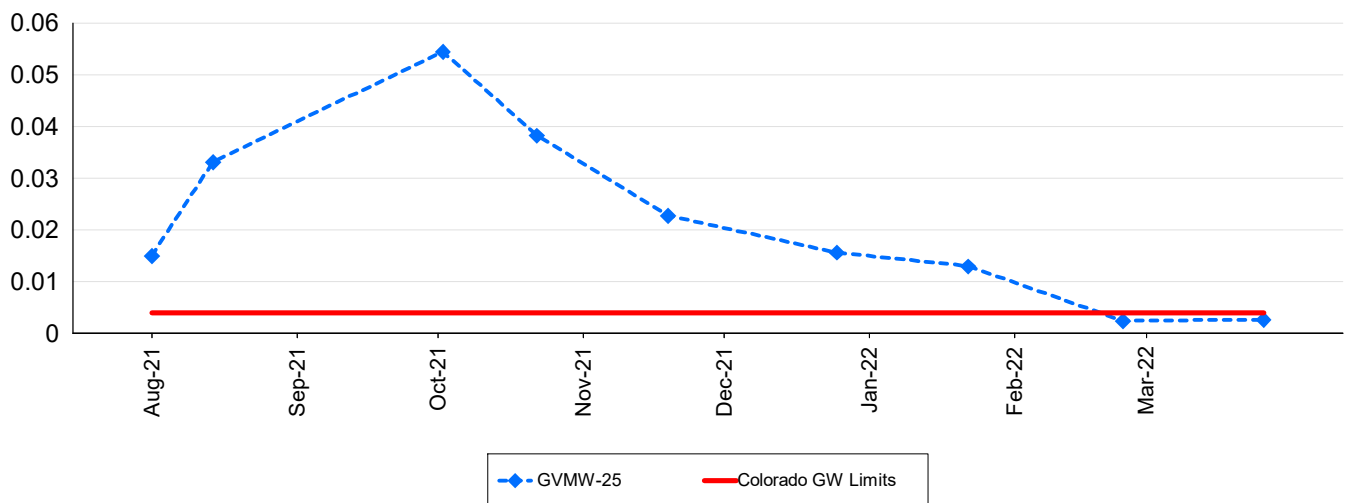
: Arsenic - Dissolved (mg/L)



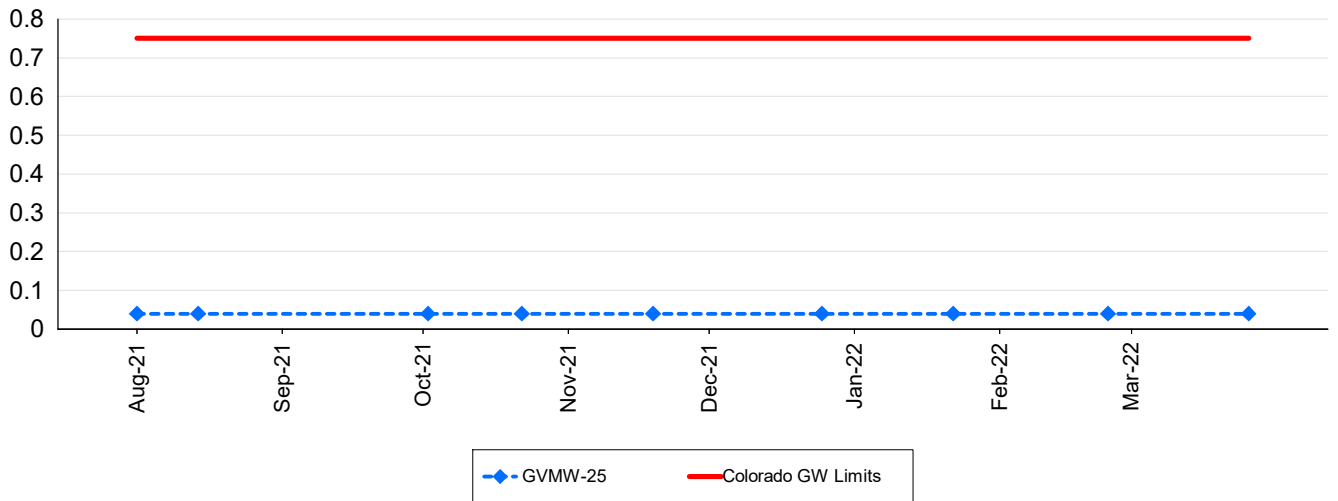
: Barium - Dissolved (mg/L)



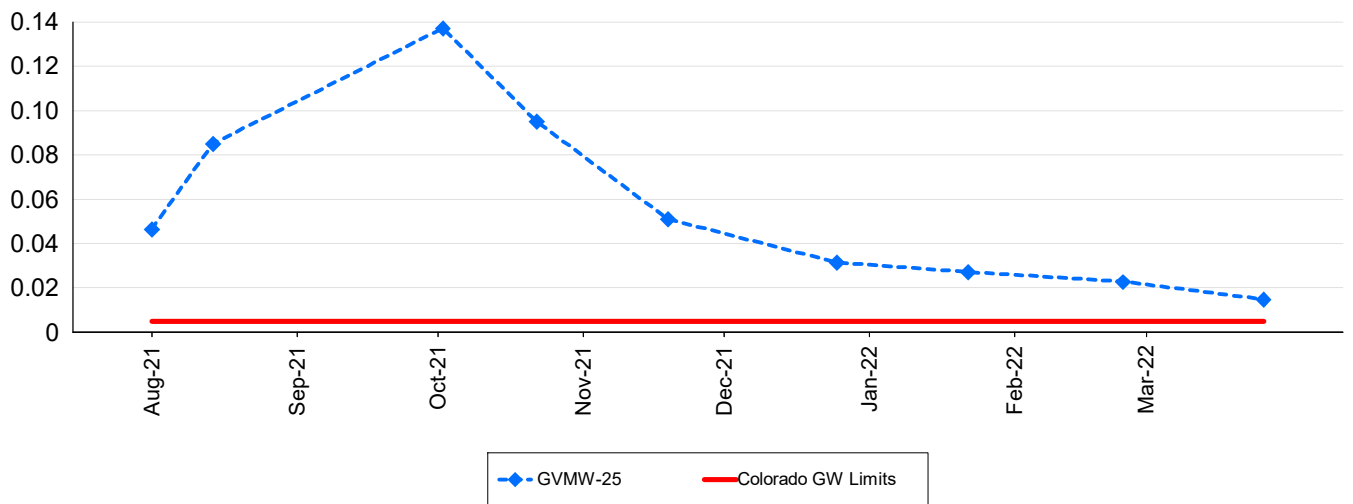
: Beryllium - Dissolved (mg/L)



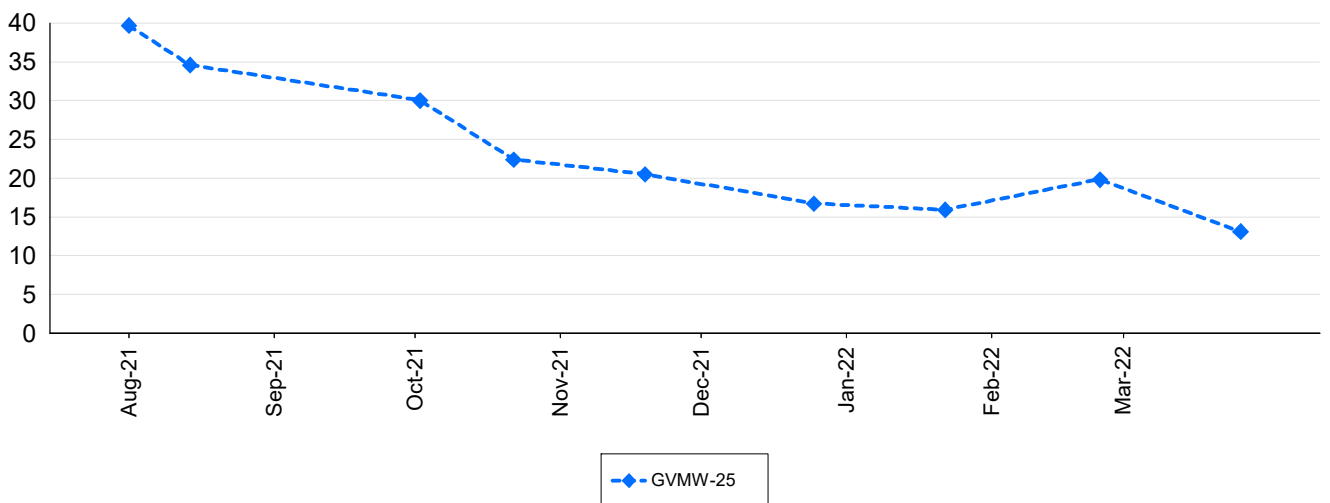
: Boron - Dissolved (mg/L)



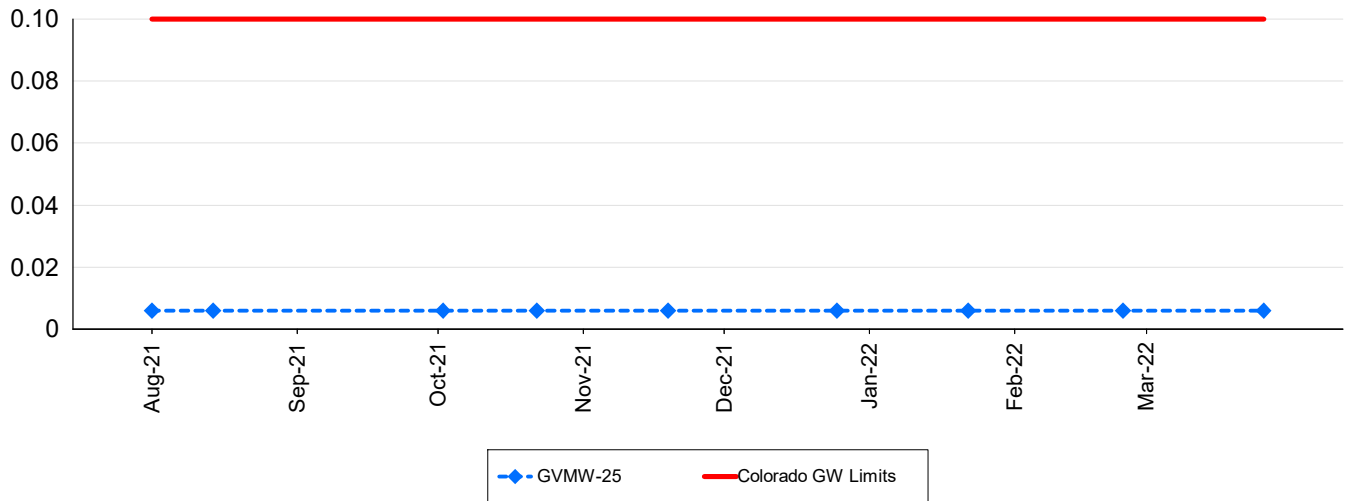
: Cadmium - Dissolved (mg/L)



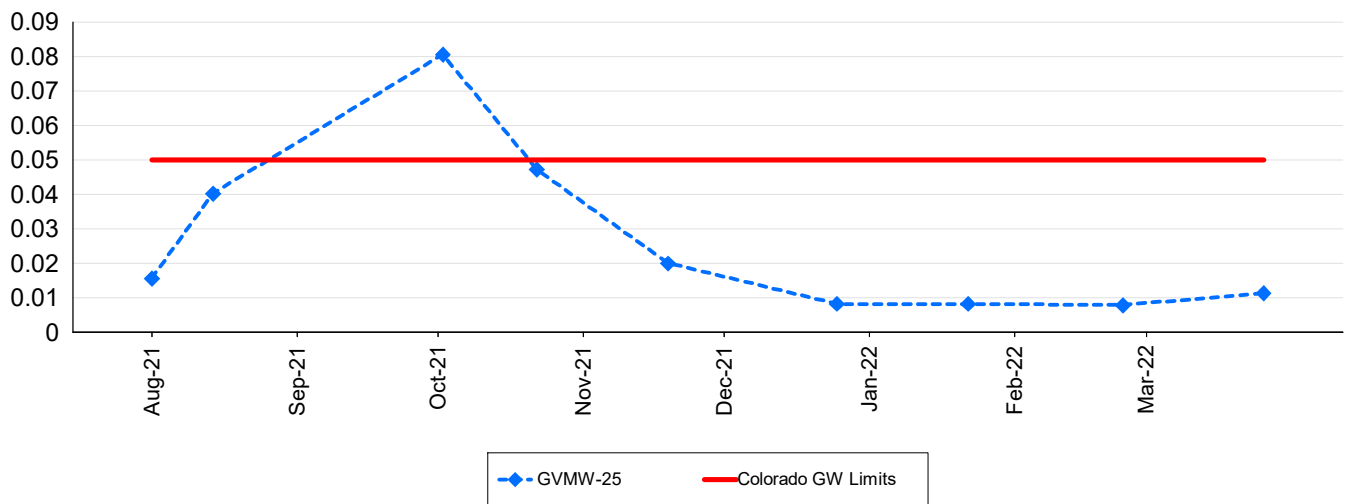
: Chloride - Total (mg/L)



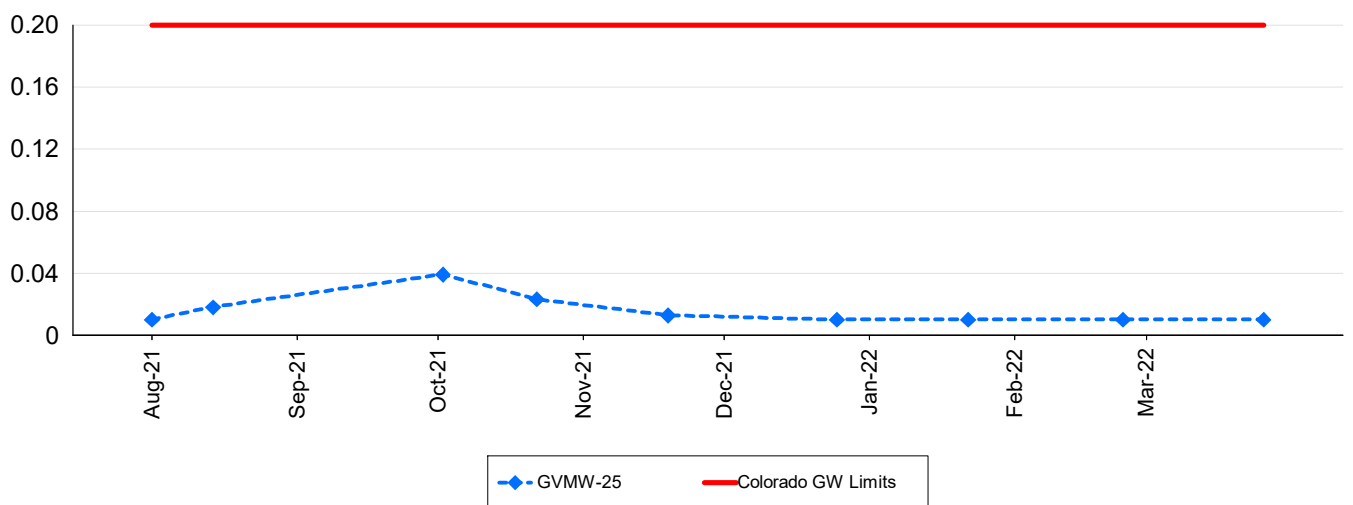
: Chromium - Dissolved (mg/L)



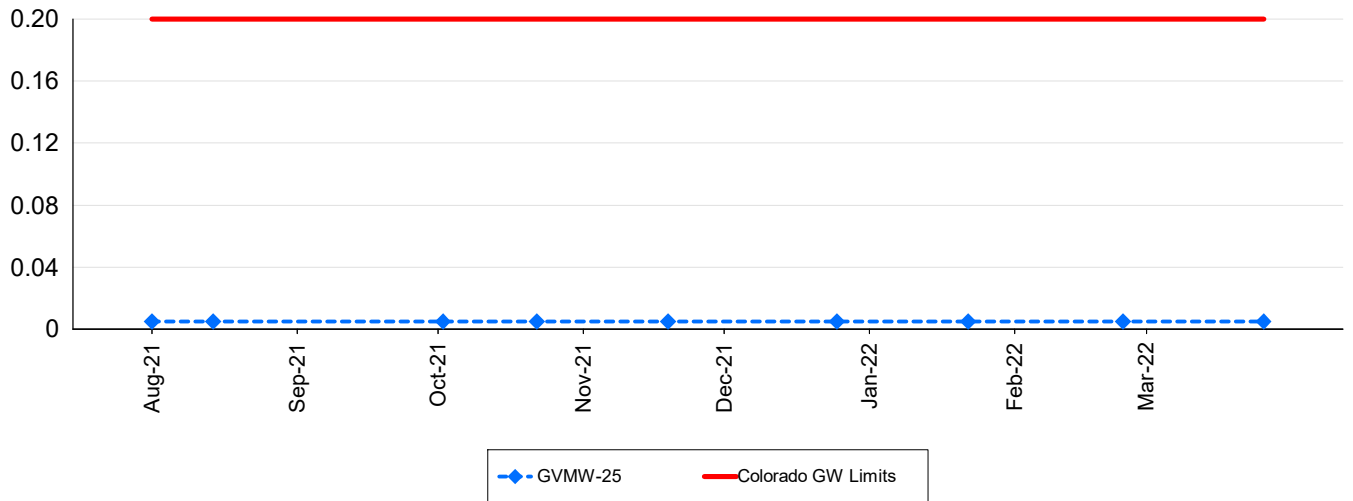
: Cobalt - Dissolved (mg/L)



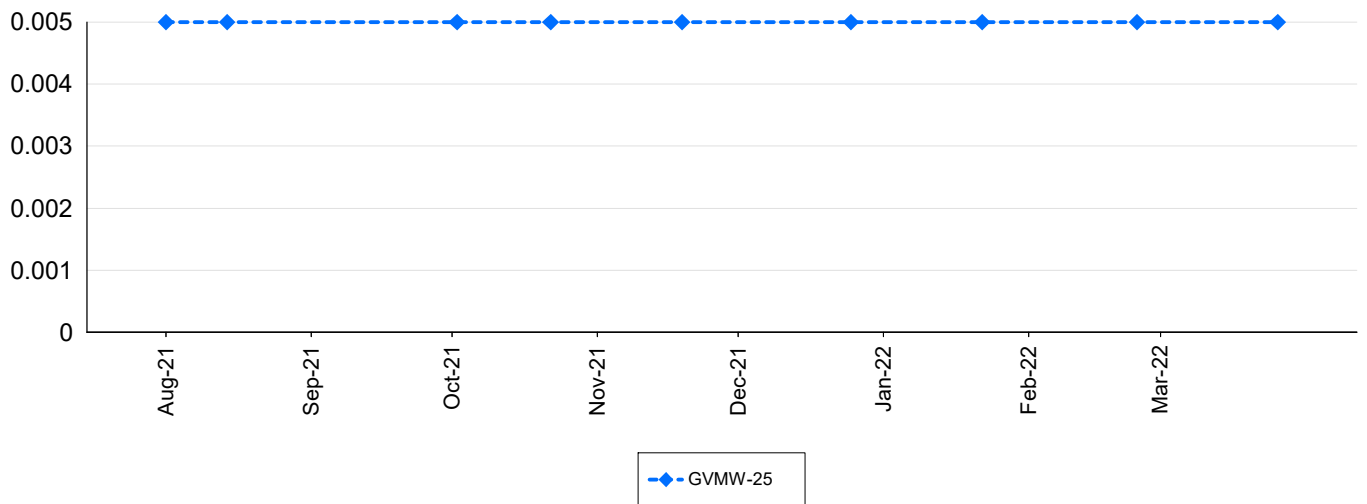
: Copper - Dissolved (mg/L)



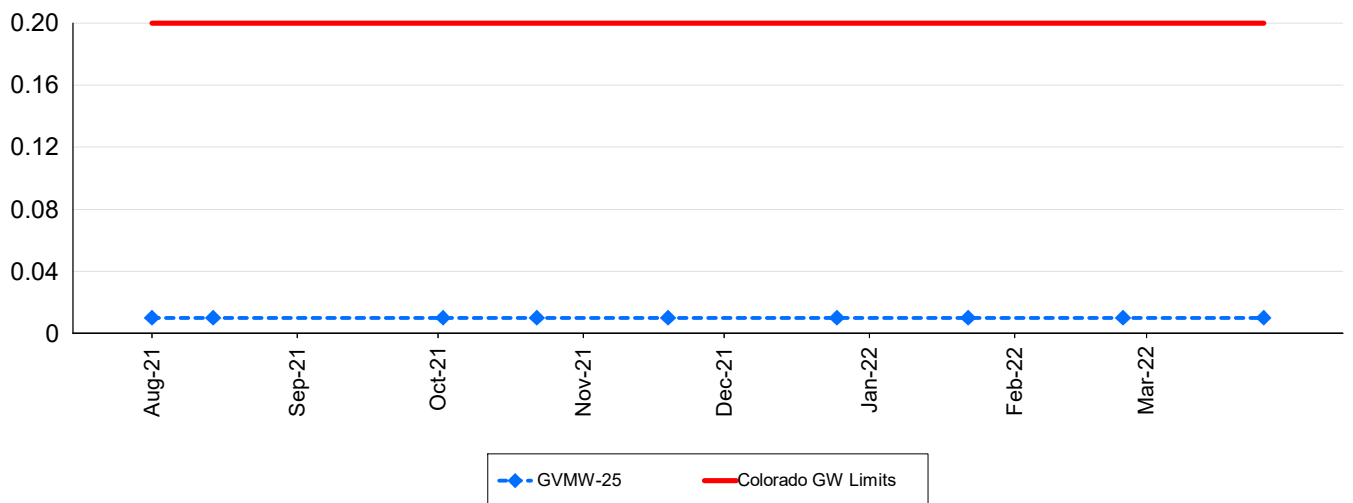
: Cyanide - Free (mg/L)



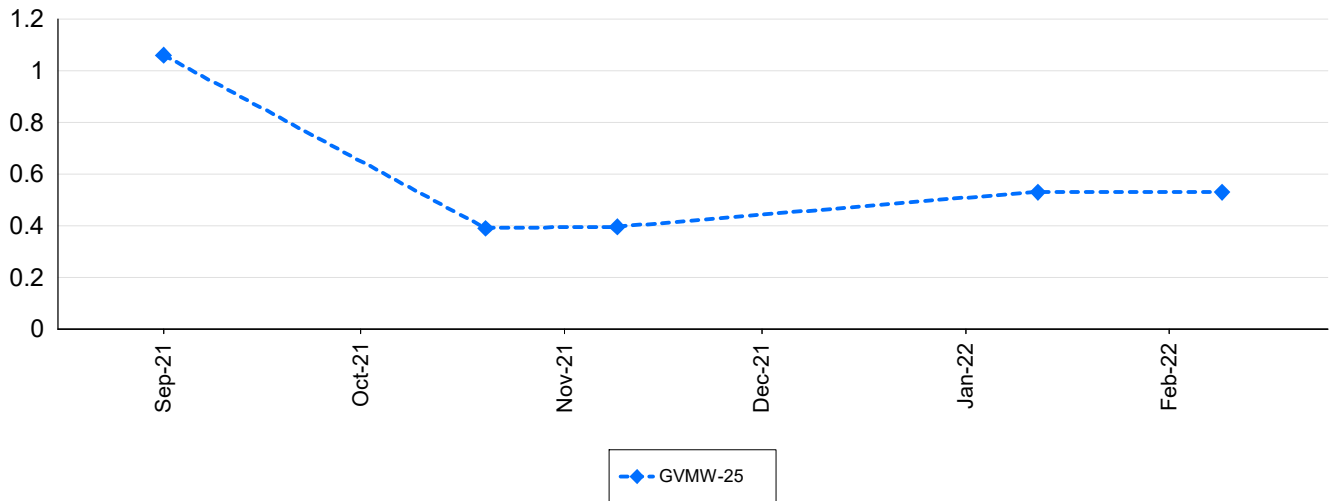
: Cyanide - Total (mg/L)



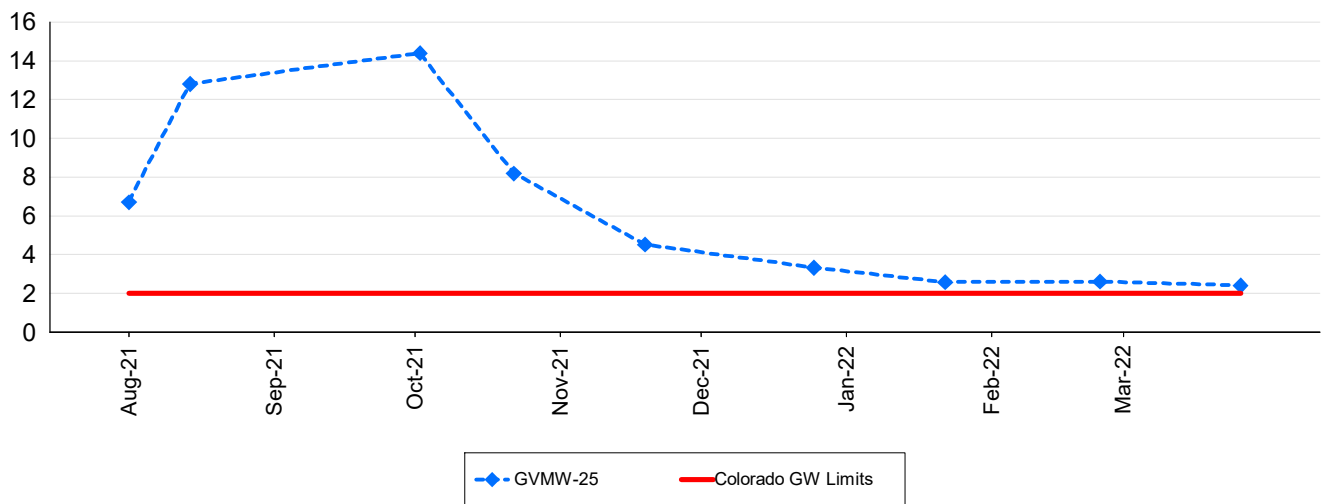
: Cyanide - WAD (mg/L)



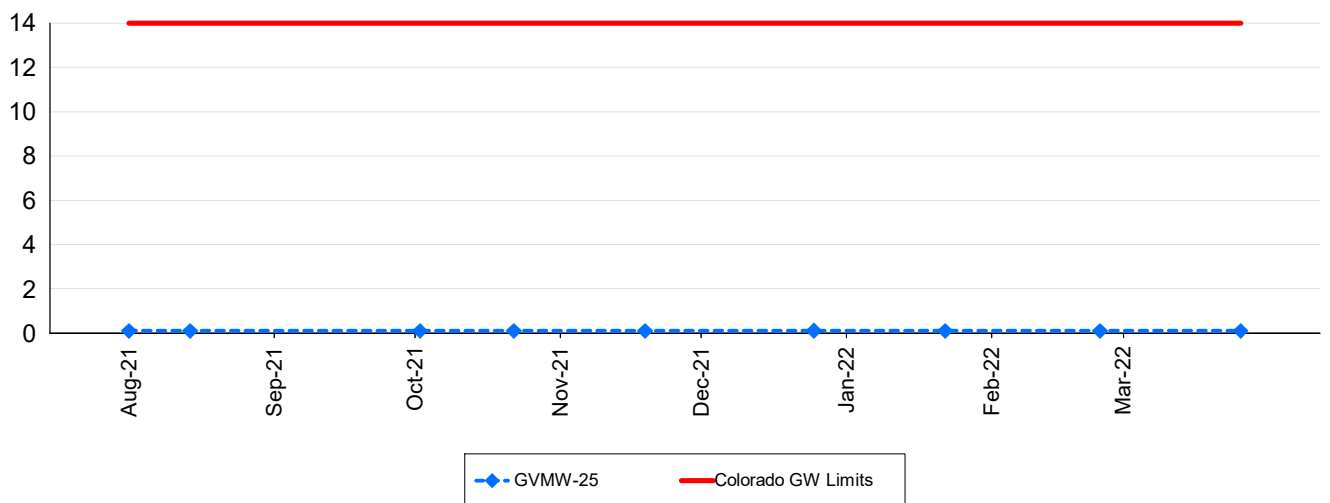
: Flow (gpm)



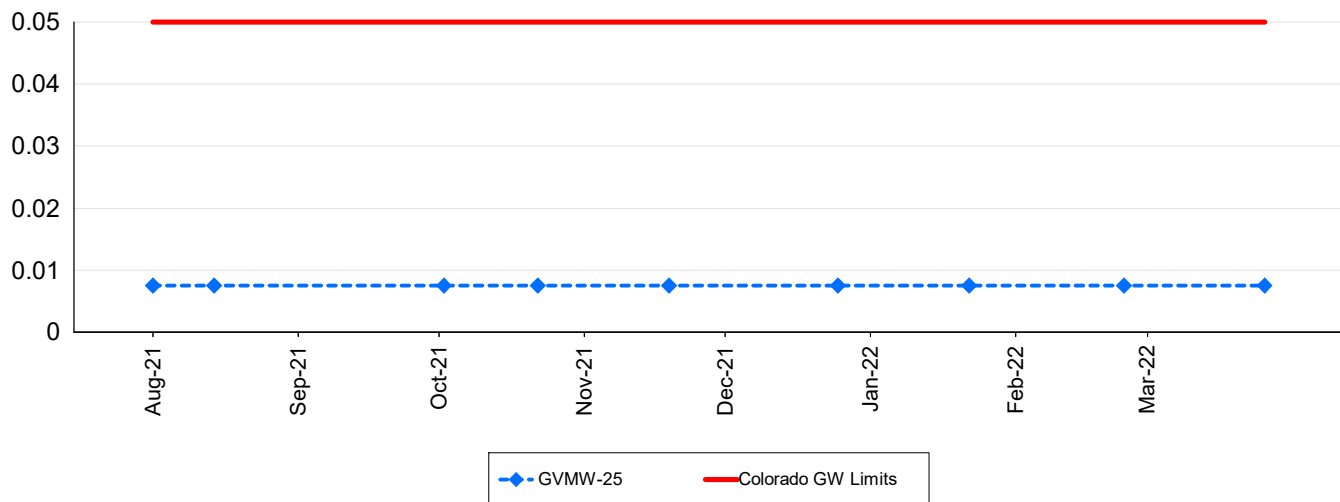
: Fluoride - Total F (mg/L)



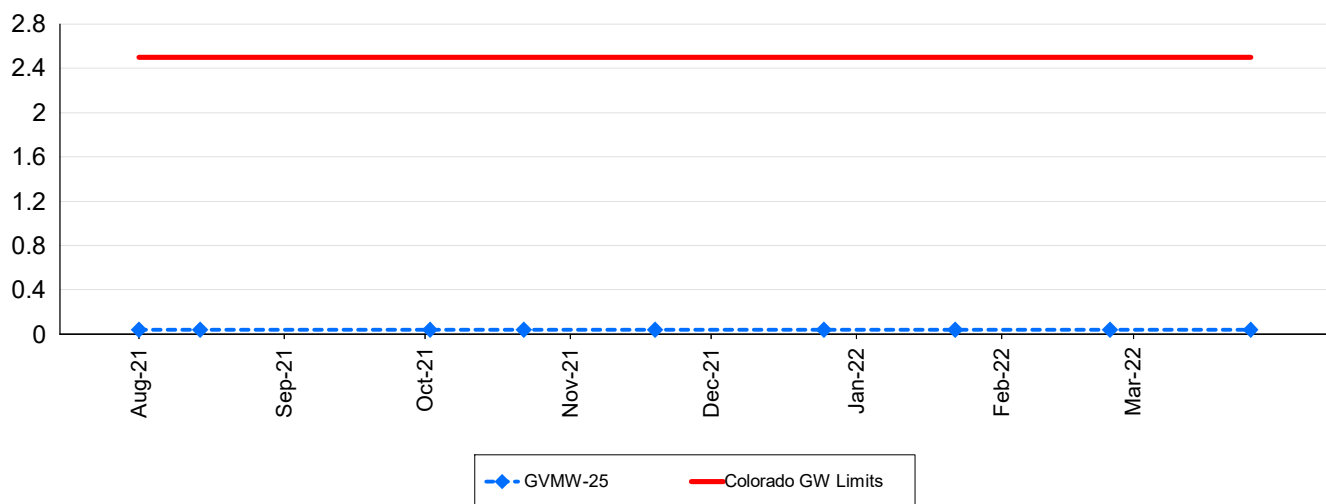
: Iron - Dissolved (mg/L)



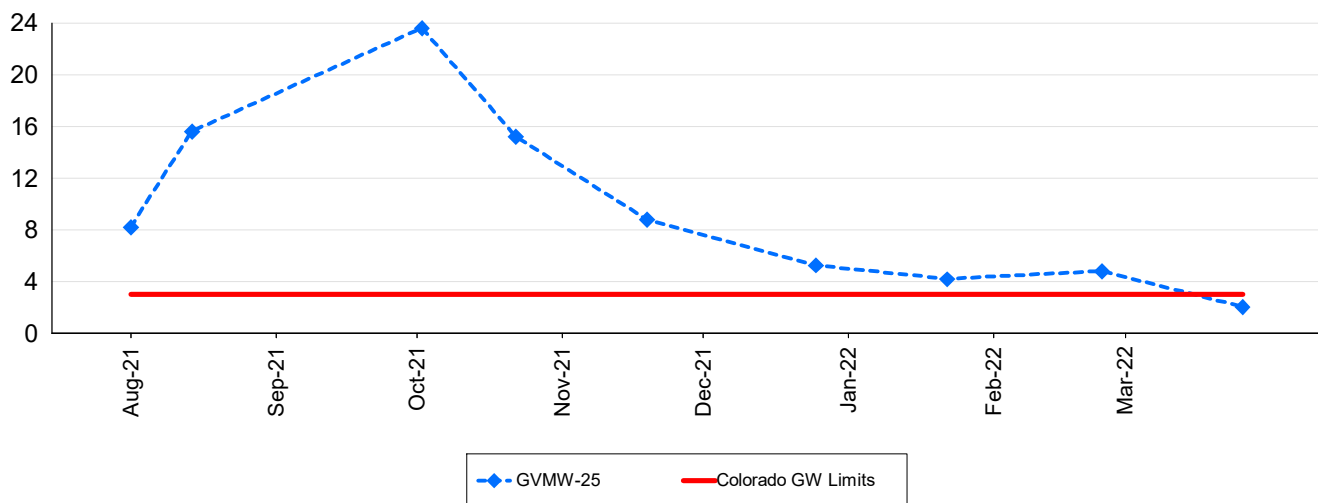
: Lead - Dissolved (mg/L)



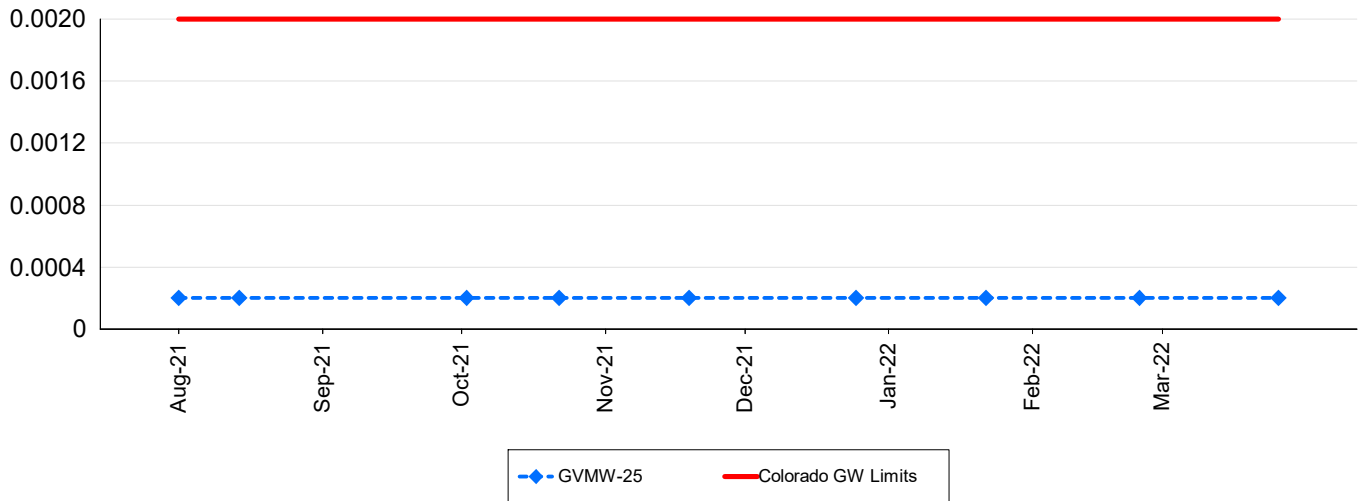
: Lithium - Dissolved (mg/L)



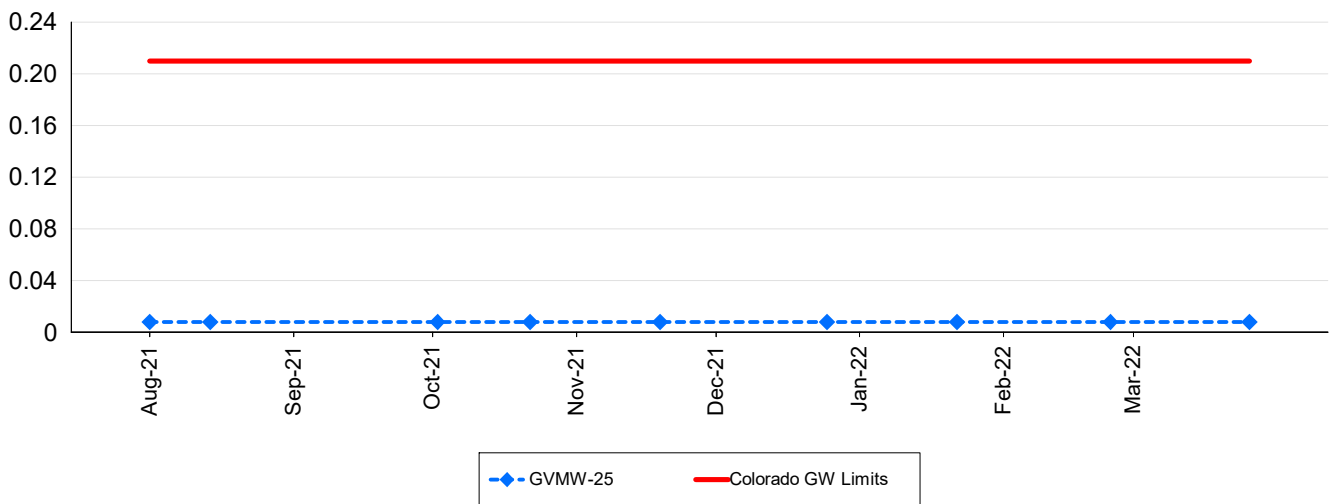
: Manganese - Dissolved (mg/L)



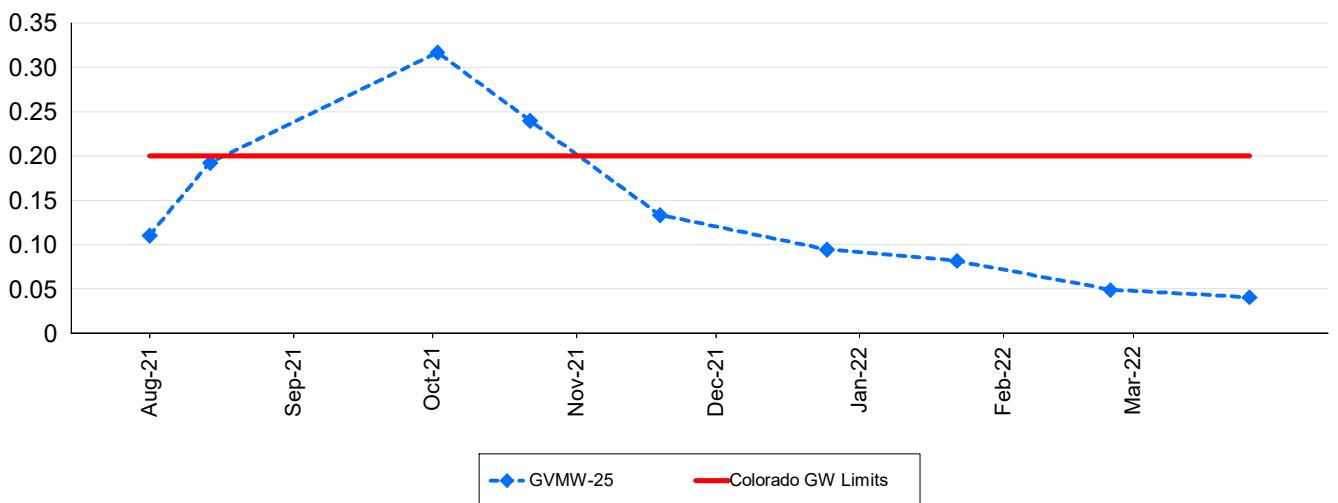
: Mercury - Dissolved (mg/L)



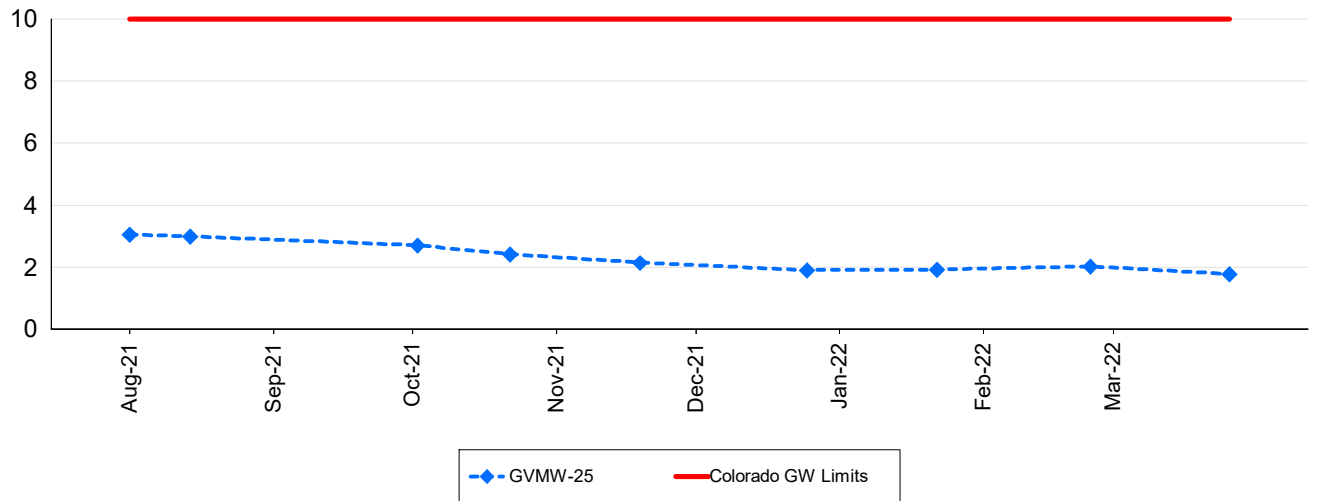
: Molybdenum - Dissolved (mg/L)



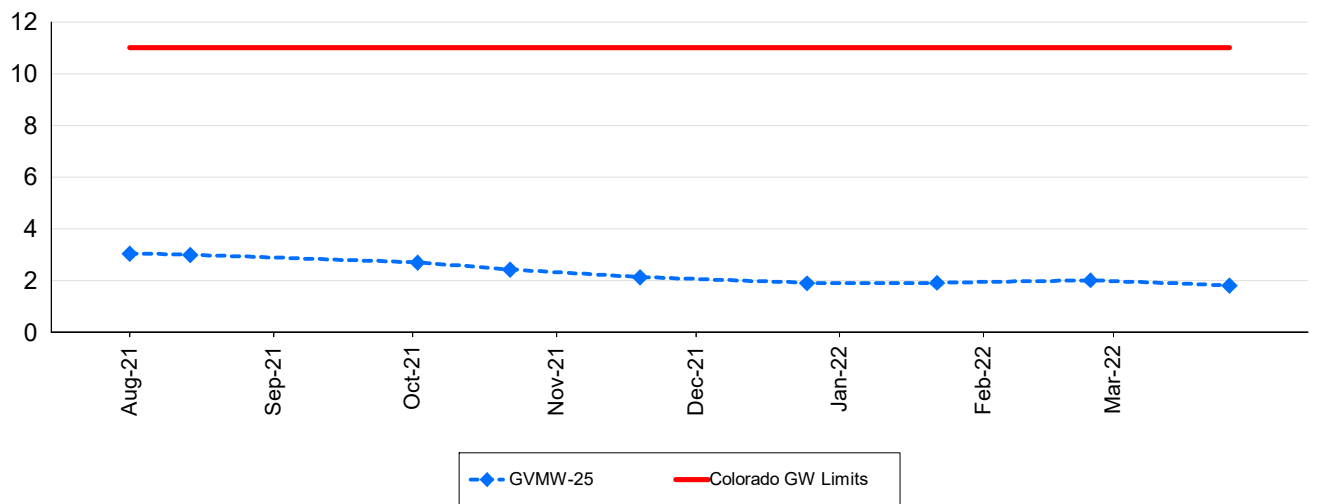
: Nickel - Dissolved (mg/L)



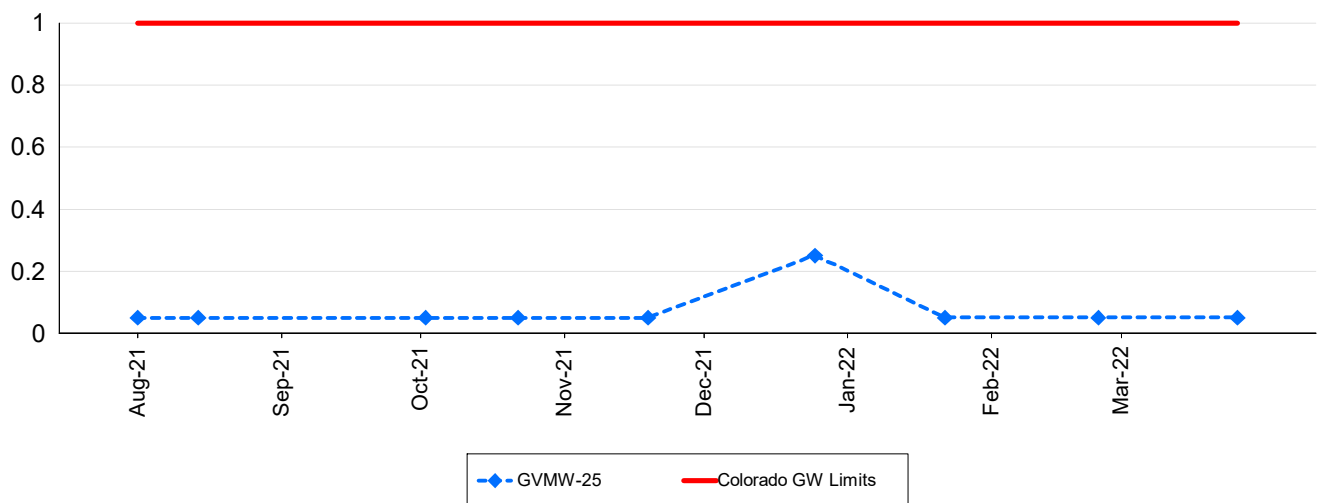
: Nitrate as Nitrogen (mg/L)



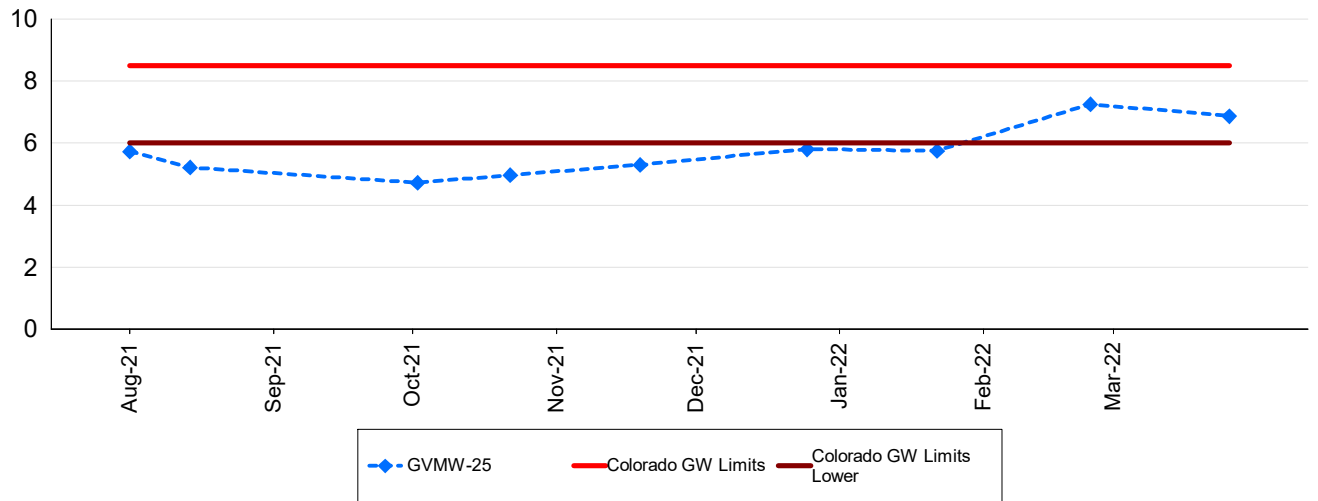
: Nitrite + Nitrate as Nitrogen (mg/L)



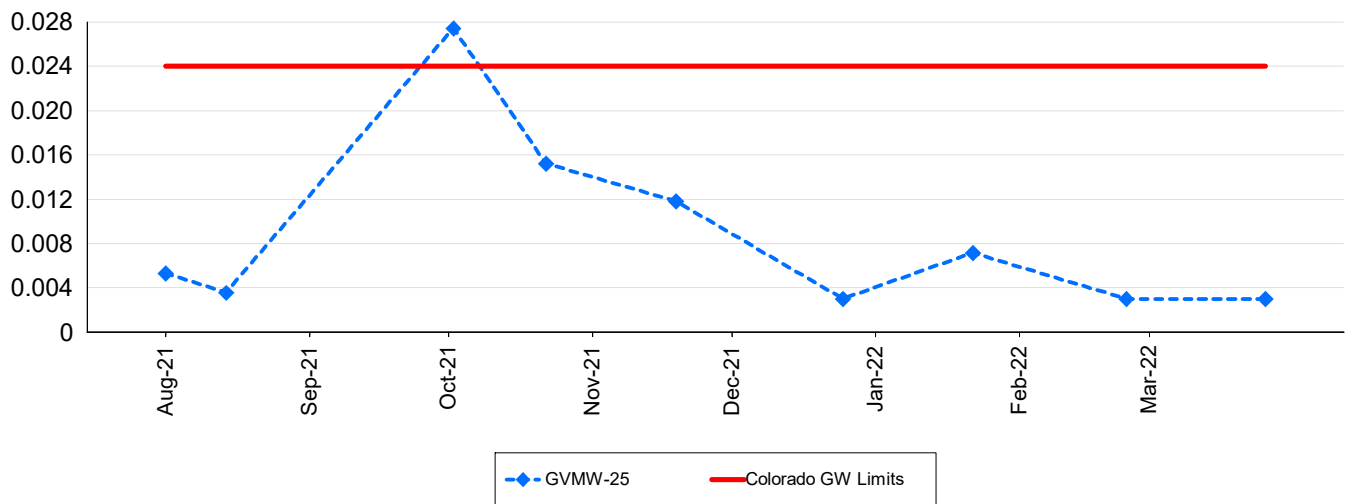
: Nitrite as Nitrogen (mg/L)



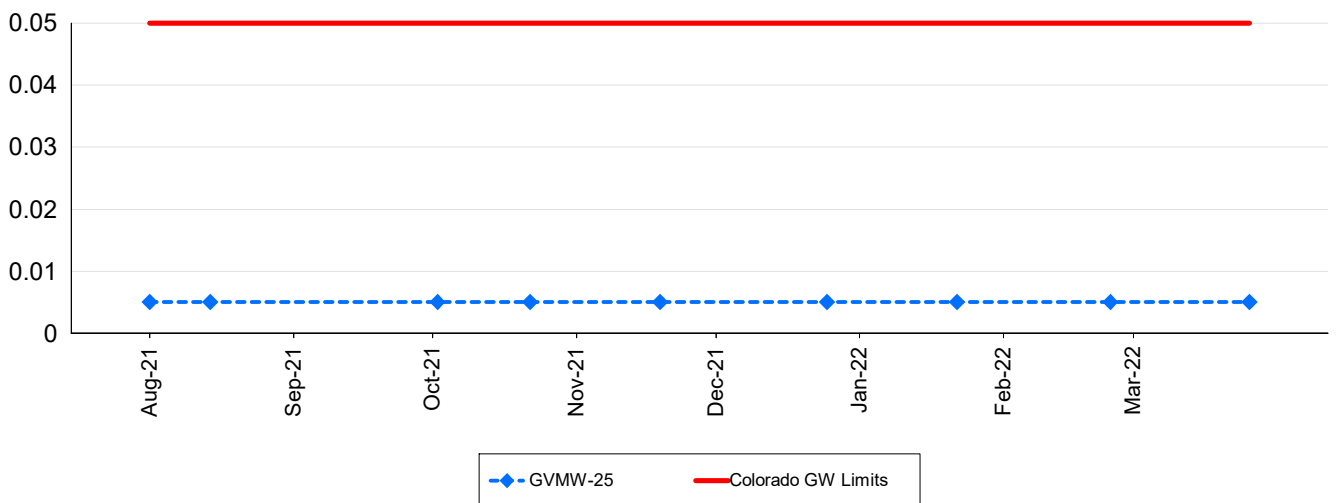
: pH Field (pH unit)



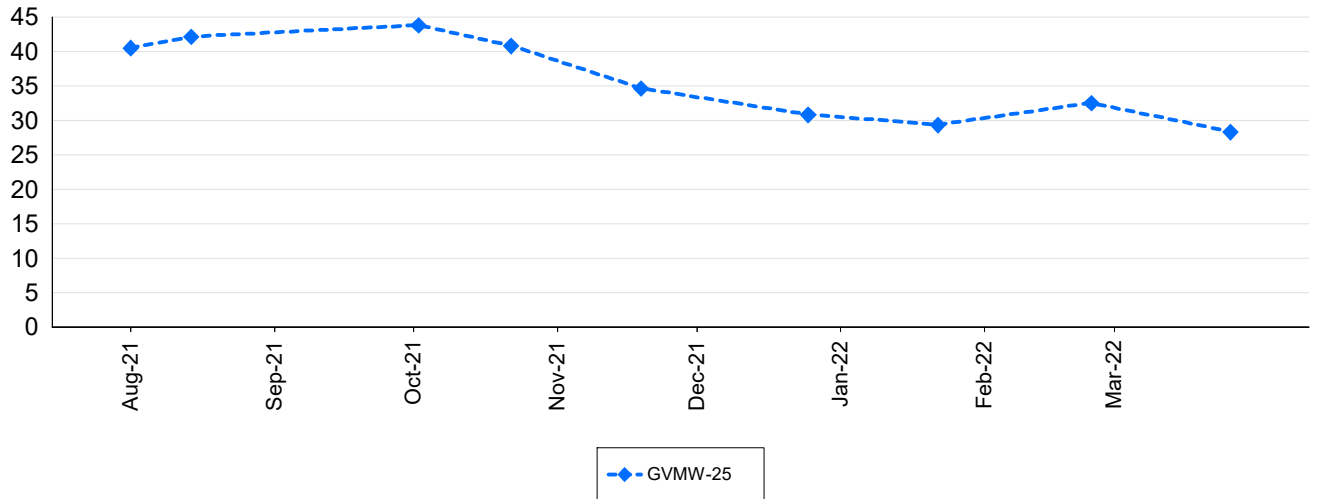
: Selenium - Dissolved (mg/L)



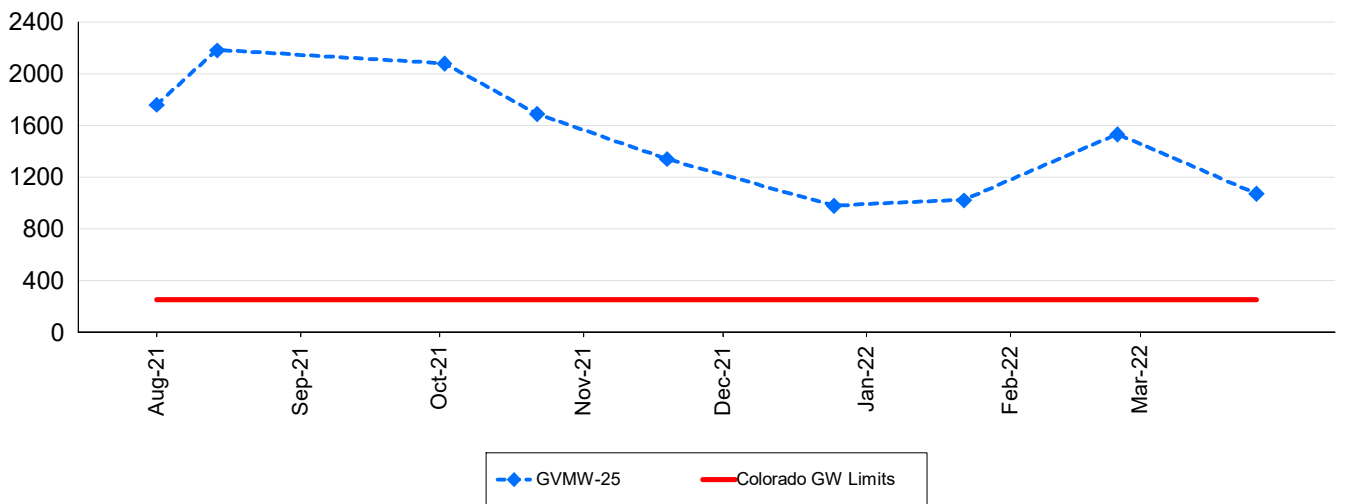
: Silver - Dissolved (mg/L)



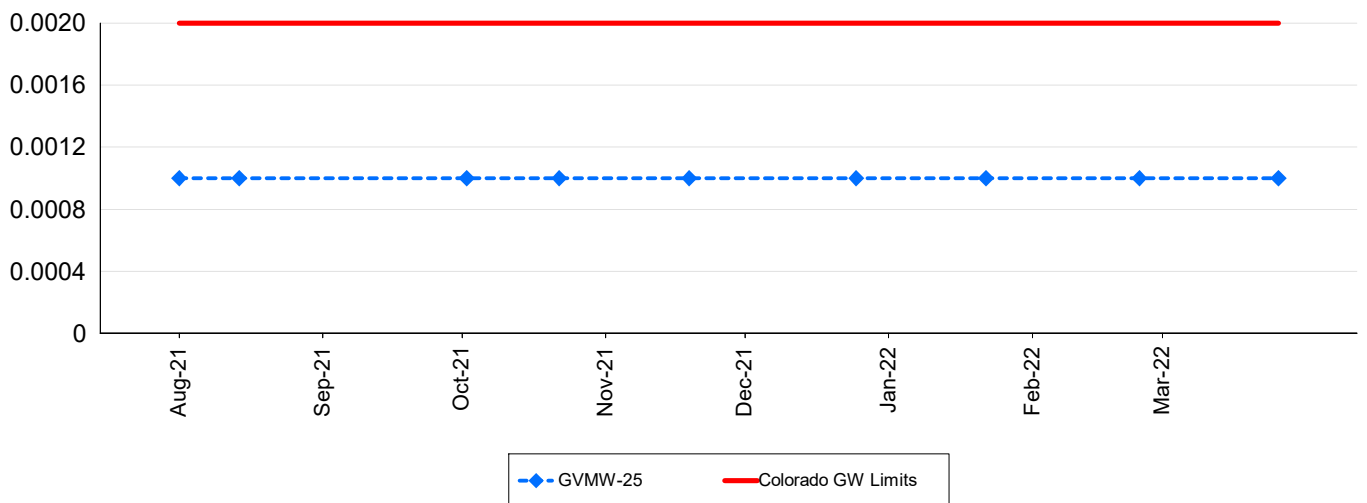
: Sodium - Dissolved (mg/L)



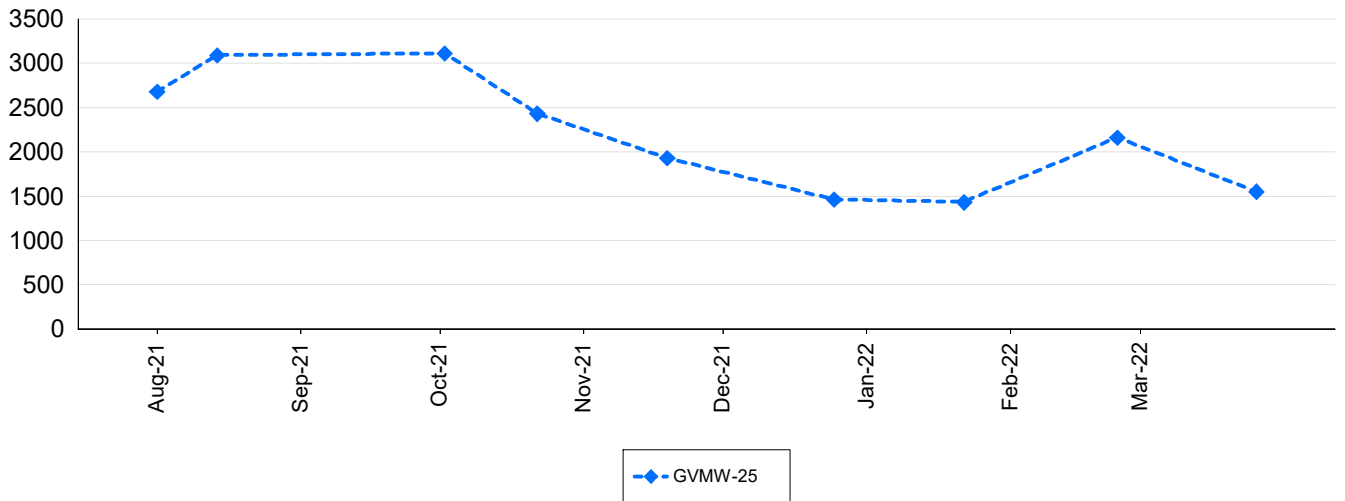
: Sulfate - Total (mg/L)



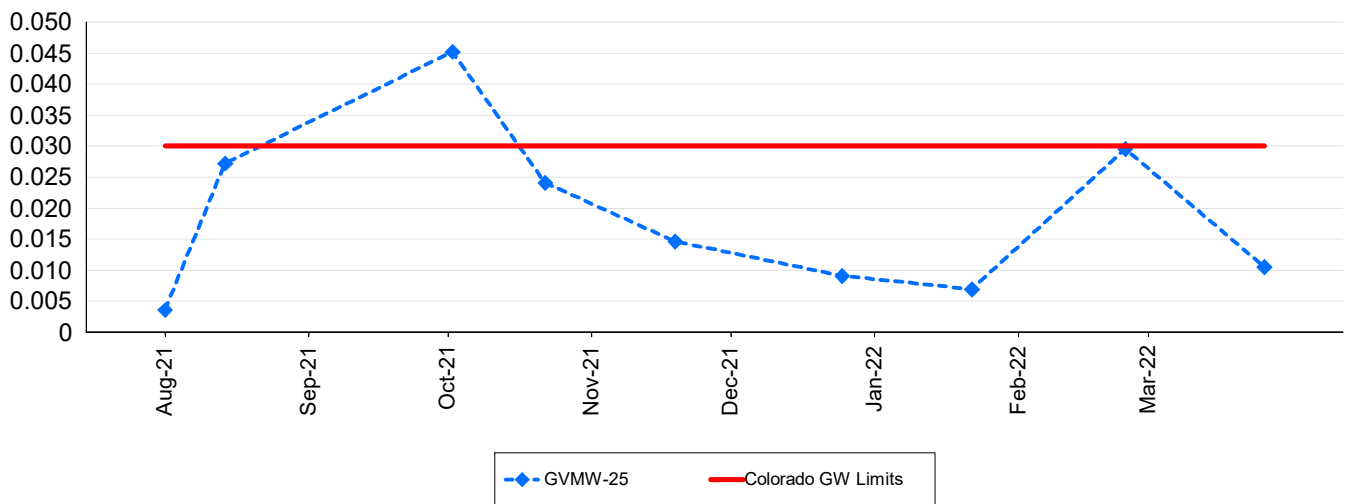
: Thallium - Dissolved (mg/L)



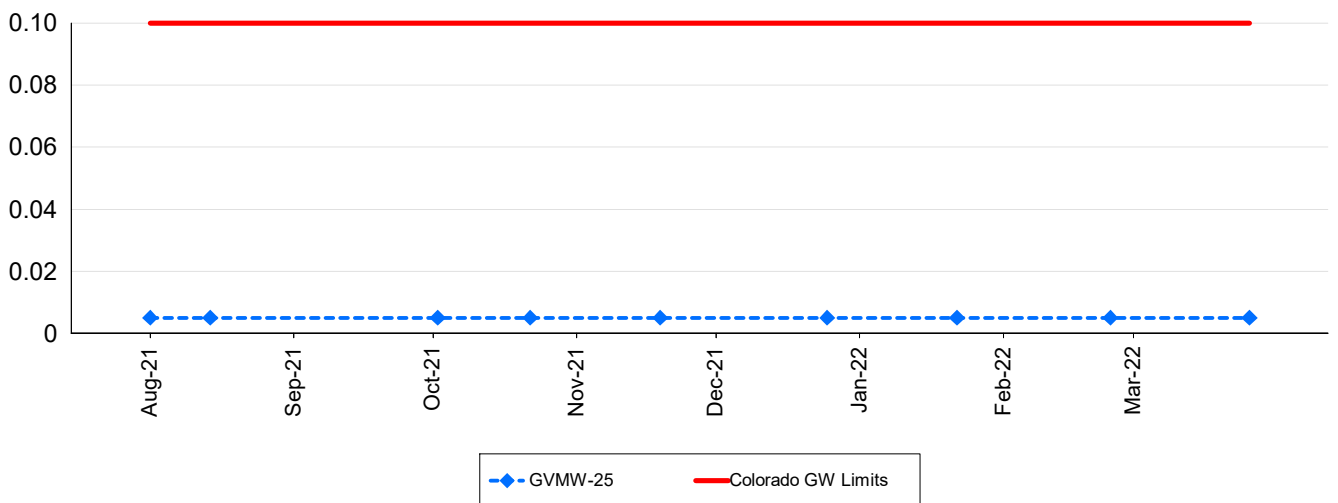
: Total Dissolved Solids (mg/L)



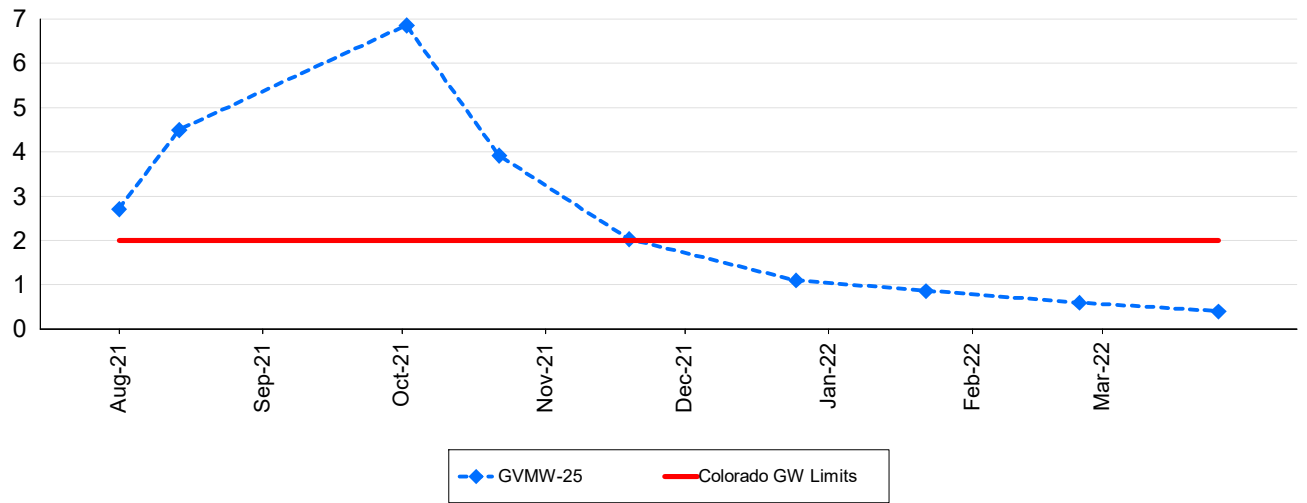
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)





Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X2D0256**

Reported: 28-Apr-22 12:26

Client Sample ID: **GVMW-25**

Sampled: 13-Apr-22 11:20

Received: 14-Apr-22

Sampled By: BOD

SVL Sample ID: **X2D0256-03 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	313	mg/L	0.100	0.035		X216187	AS	04/25/22 12:42	
EPA 200.7	Magnesium	68.2	mg/L	0.500	0.045		X216187	AS	04/25/22 12:42	
EPA 200.7	Potassium	6.24	mg/L	0.50	0.09		X216187	AS	04/25/22 12:42	
SM 2340 B	Hardness (as CaCO3)	1060	mg/L	2.31	0.271		N/A		04/25/22 12:42	

Metals (Dissolved)

EPA 200.7	Aluminum	0.858	mg/L	0.080	0.054		X216183	AS	04/22/22 11:39	
EPA 200.7	Barium	0.0171	mg/L	0.0020	0.0019		X216183	AS	04/22/22 11:39	
EPA 200.7	Beryllium	0.00258	mg/L	0.00200	0.00080		X216183	AS	04/22/22 11:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X216183	AS	04/22/22 11:39	
EPA 200.7	Cadmium	0.0147	mg/L	0.0020	0.0016		X216183	AS	04/22/22 11:39	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X216183	AS	04/22/22 11:39	
EPA 200.7	Cobalt	0.0113	mg/L	0.0060	0.0046		X216183	AS	04/22/22 11:39	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X216183	AS	04/22/22 11:39	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X216183	AS	04/22/22 11:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X216183	AS	04/22/22 11:39	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X216183	AS	04/22/22 11:39	
EPA 200.7	Manganese	2.01	mg/L	0.0080	0.0034		X216183	AS	04/22/22 11:39	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X216183	AS	04/22/22 11:39	
EPA 200.7	Nickel	0.0406	mg/L	0.0100	0.0048		X216183	AS	04/22/22 11:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X216183	AS	04/22/22 11:39	
EPA 200.7	Sodium	28.3	mg/L	0.50	0.12		X216183	AS	04/22/22 11:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X216183	AS	04/22/22 11:39	
EPA 200.7	Zinc	0.395	mg/L	0.0100	0.0054		X216183	AS	04/22/22 11:39	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X216195	KAH	04/25/22 11:53	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X216195	KAH	04/25/22 11:53	
EPA 200.8	Selenium	< 0.00300	mg/L	0.00300	0.00024		X216195	KAH	04/25/22 11:53	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X216195	KAH	04/26/22 11:38	
EPA 200.8	Uranium	0.0105	mg/L	0.00100	0.000052		X216195	KAH	04/25/22 11:53	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X217018	MWD	04/19/22 13:51	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @19.0°C	< 0.0050	mg/L	0.0050	0.0048		X217015	HJL	04/19/22 11:04	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X217155	KJR	04/27/22 18:34	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X217092	KJR	04/20/22 15:23	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X216118	HJL	04/19/22 14:12	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X217186	MWD	04/22/22 12:09	
SM 2320 B	Total Alkalinity	47.4	mg/L as CaCO3	1.0			X217025	MWD	04/18/22 22:30	
SM 2320 B	Bicarbonate	47.4	mg/L as CaCO3	1.0			X217025	MWD	04/18/22 22:30	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X217025	MWD	04/18/22 22:30	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X217025	MWD	04/18/22 22:30	
SM 2540 C	Total Diss. Solids	1550	mg/L	10			X217050	TJL	04/19/22 15:10	
SM 2540 D	Total Susp. Solids	36.0	mg/L	5.0			X217051	TJL	04/19/22 15:10	
SM 4500 H B	pH @20.2°C	6.5	pH Units				X217025	MWD	04/18/22 22:30	H5



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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X2D0256**

Reported: 28-Apr-22 12:26

Client Sample ID: **GVMW-25**

Sampled: 13-Apr-22 11:20

Received: 14-Apr-22

Sampled By: BOD

SVL Sample ID: **X2D0256-03 (Ground Water)**

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	13.1	mg/L	10.0	7.00	50	X216172	EBR	04/14/22 20:45	D2
EPA 300.0	Fluoride	2.39	mg/L	0.100	0.062		X216172	EBR	04/14/22 20:26	
EPA 300.0	Nitrate as N	1.77	mg/L	0.050	0.043		X216172	EBR	04/14/22 20:26	
EPA 300.0	Nitrate+Nitrite as N	1.80	mg/L	0.100	0.074		X216172	RS	04/14/22 15:54	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X216172	EBR	04/14/22 20:26	
EPA 300.0	Sulfate as SO4	1070	mg/L	15.0	9.00	50	X216172	EBR	04/14/22 20:45	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 22.8 meq/L Anion Sum: 23.8 meq/L C/A Balance: -2.23 % Calculated TDS: 1538 TDS/cTDS: 1.01

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Herman J. Haring
Project Manager