

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: Katie Blake <Katie.Blake@newmont.com>

Thu, Jun 30, 2022 at 4:13 PM

Good Afternoon Ms. Eschberger,

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

Best Regards,

Ron

Ronald Parratt

Site Water Coordinator

Water & Energy Specialist



100 North 3rd Street

Victor, Colorado 80860

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719.429.8522

NEWMONT.COM

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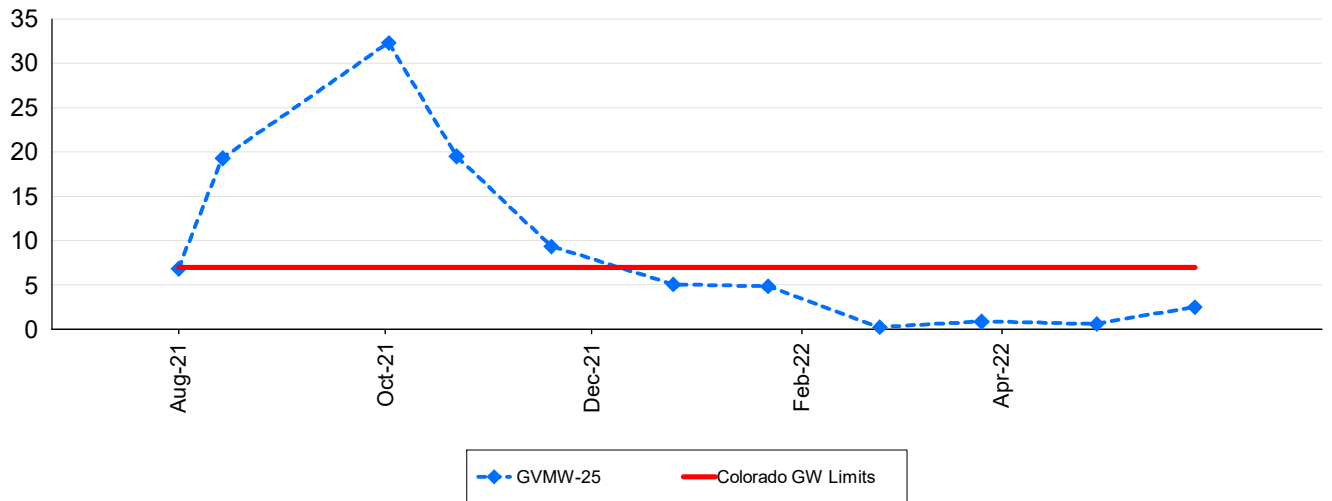
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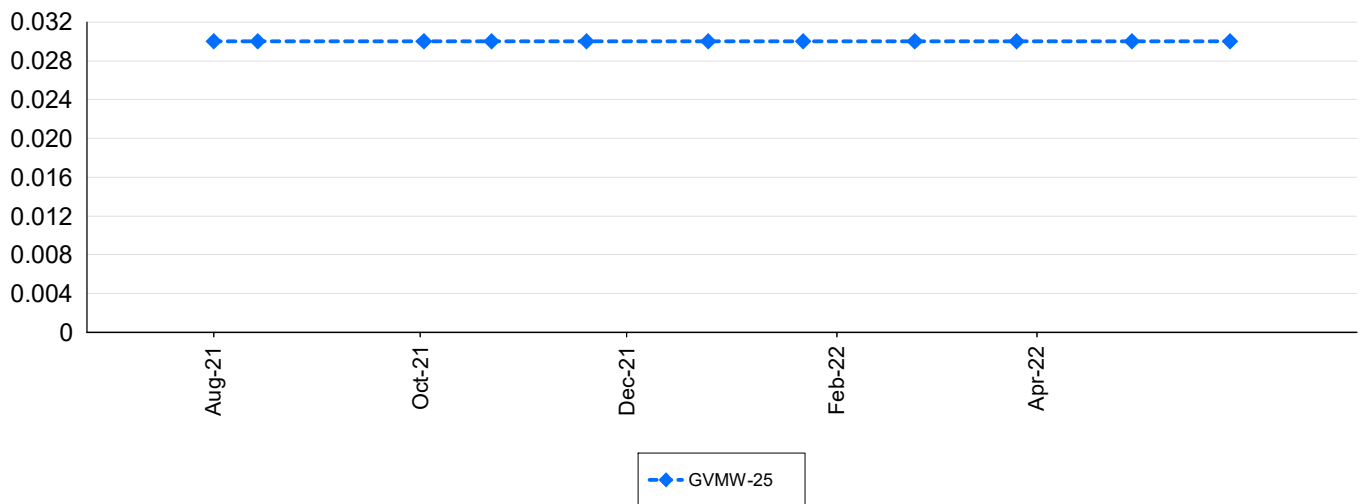
GVMW-25 June-2022 Update Report.pdf

308K

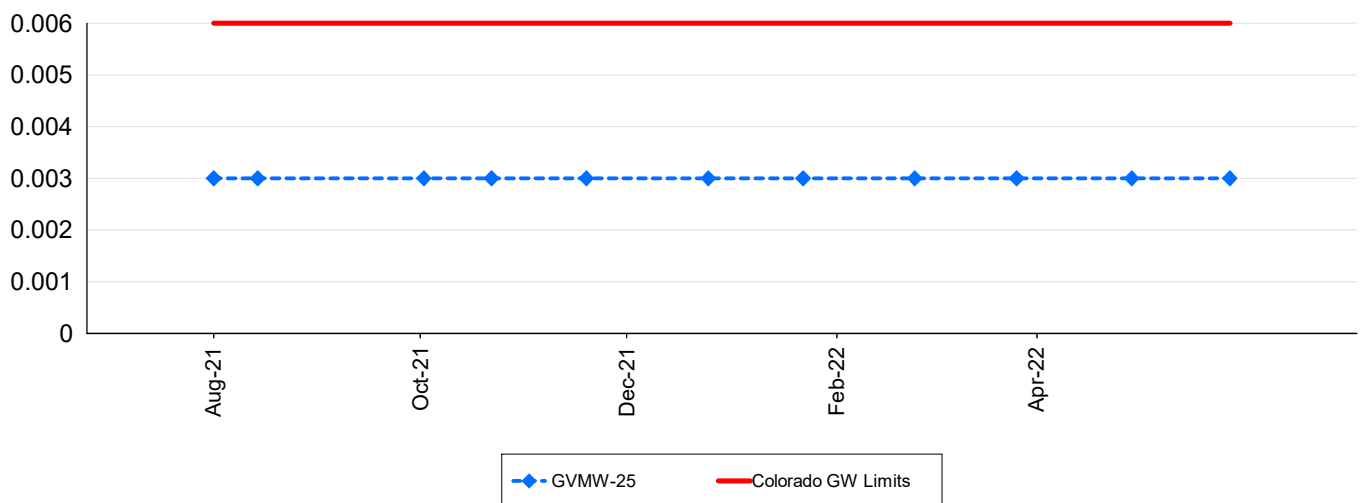
: Aluminium - Dissolved (mg/L)



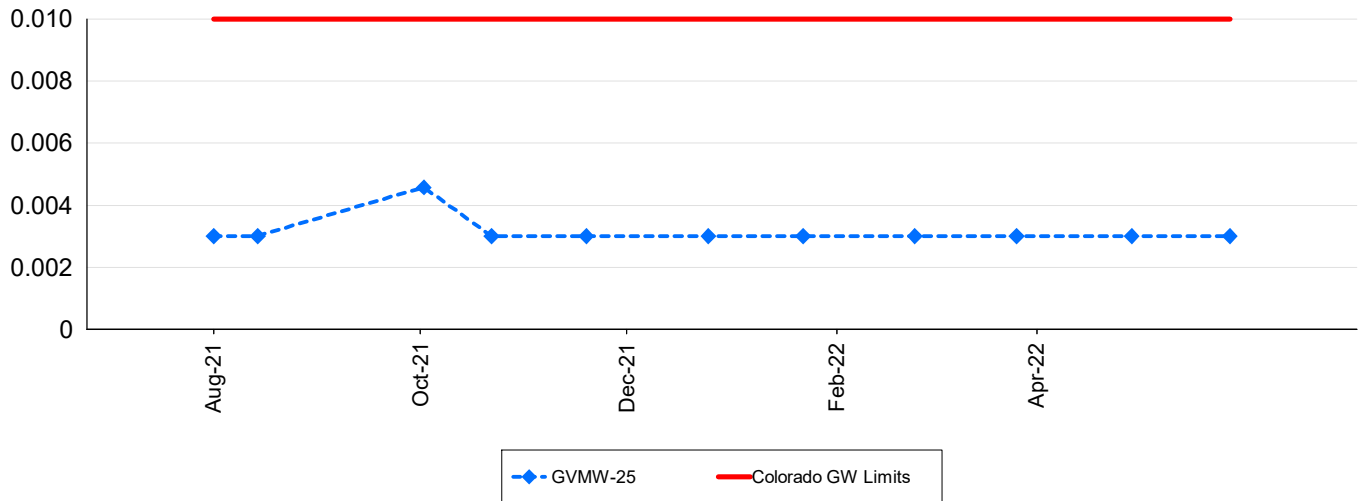
: Ammonia (mg/L)



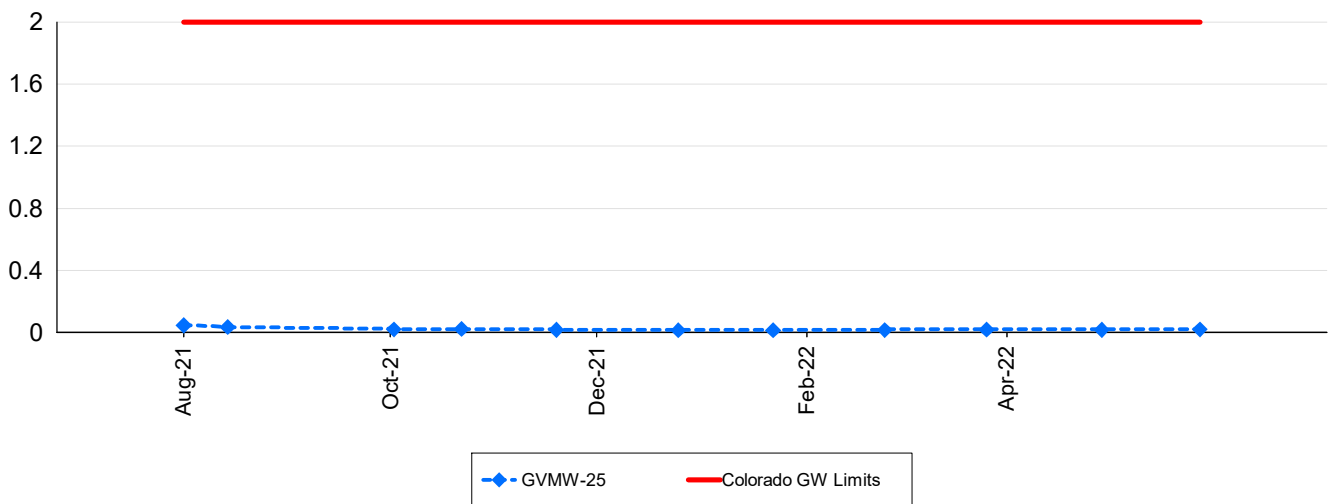
: Antimony - Dissolved (mg/L)



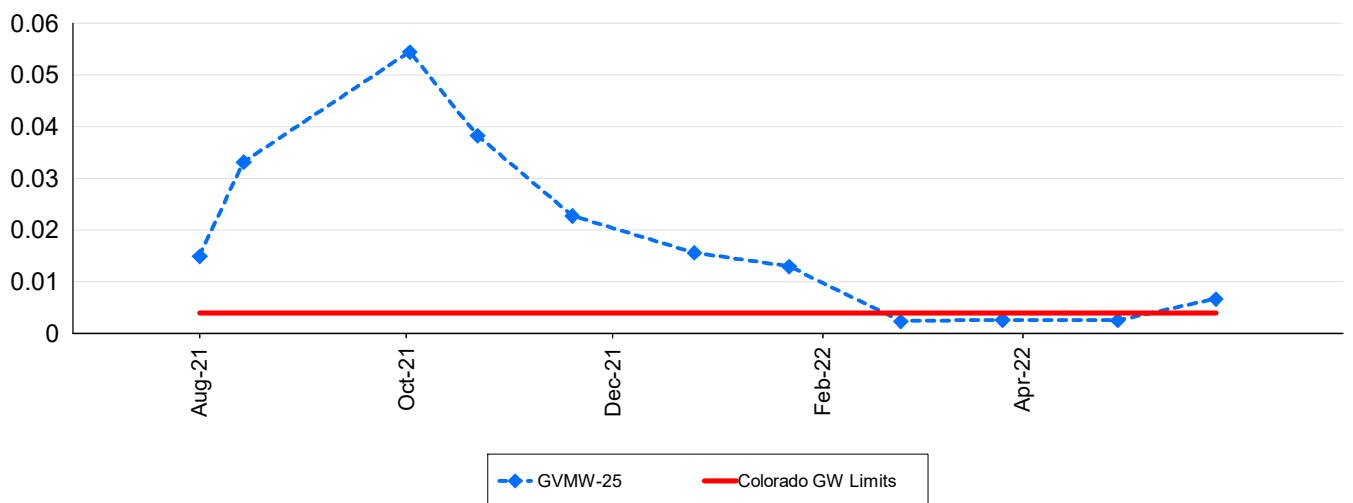
: Arsenic - Dissolved (mg/L)



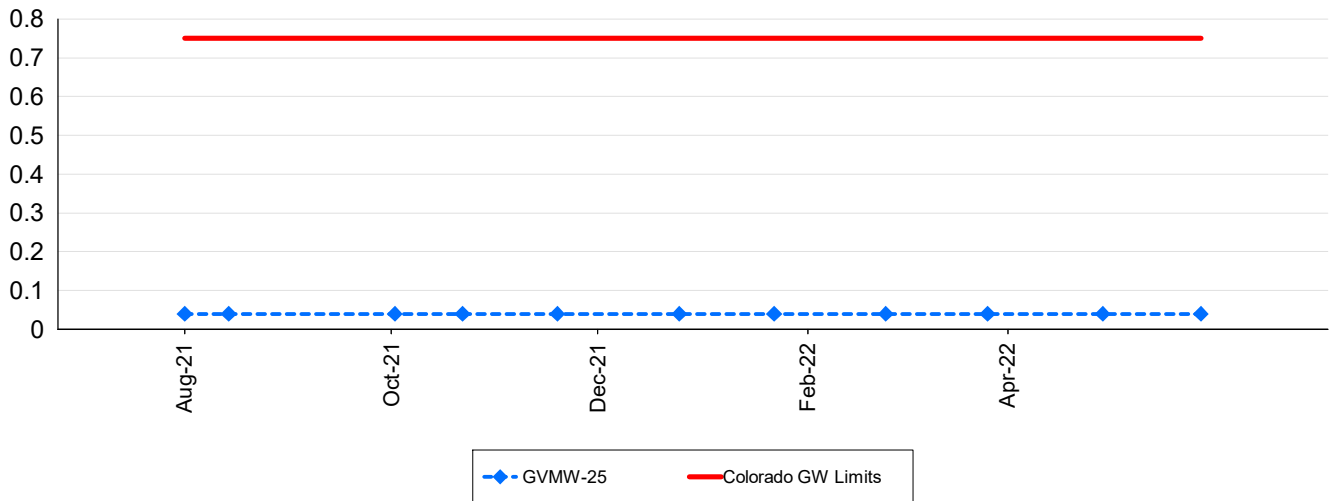
: Barium - Dissolved (mg/L)



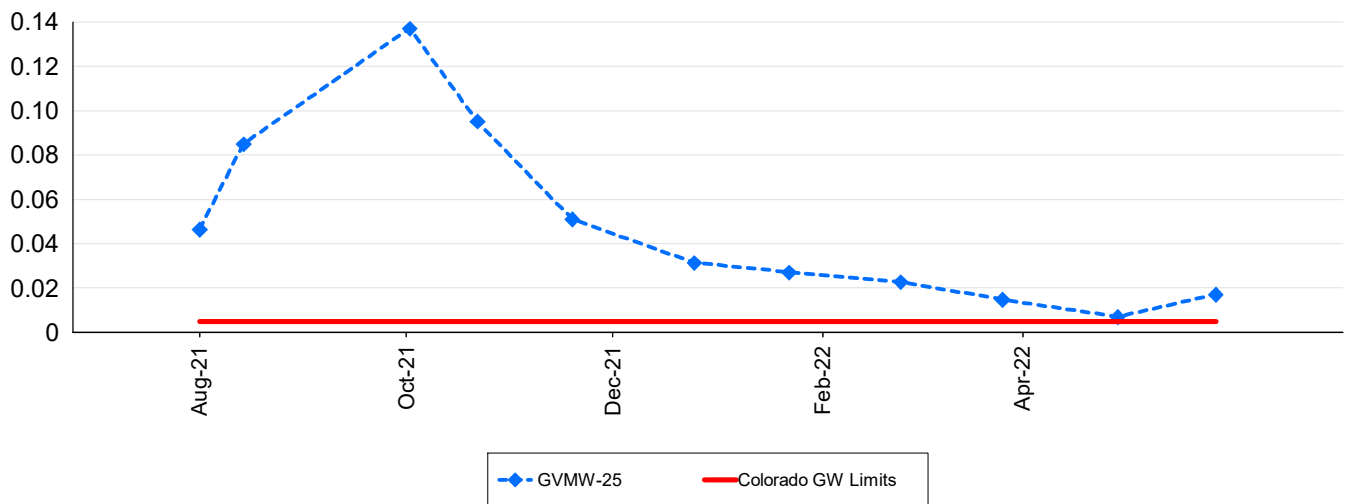
: Beryllium - Dissolved (mg/L)



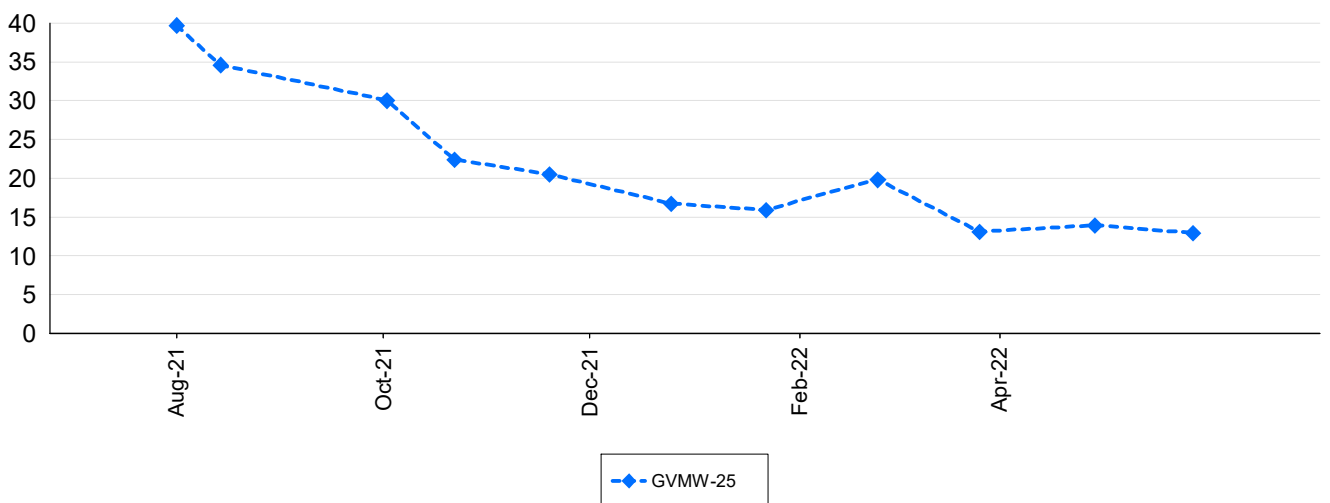
: Boron - Dissolved (mg/L)



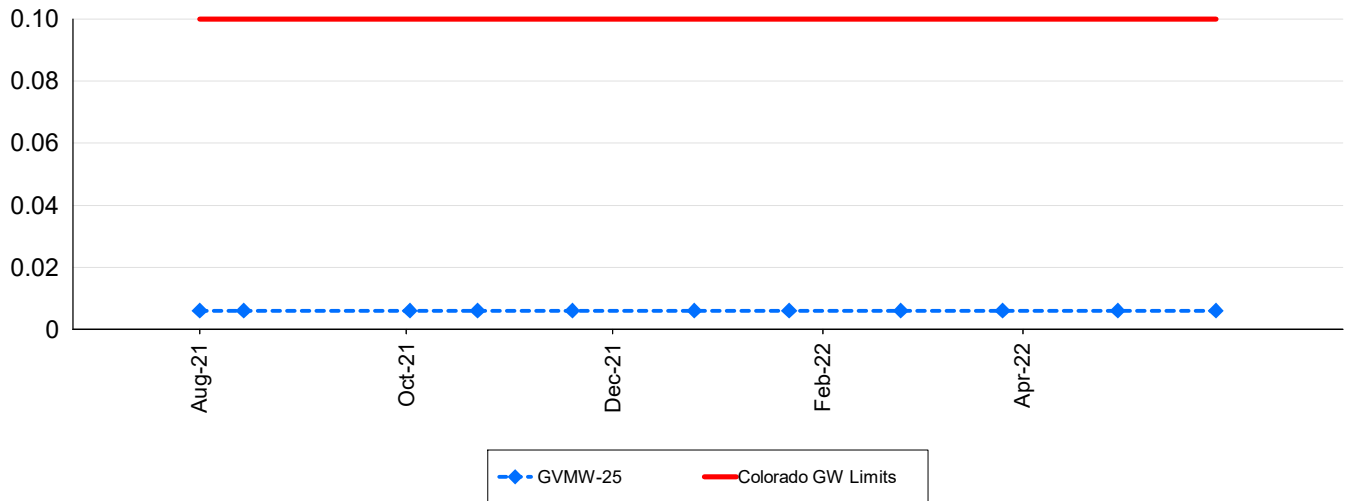
: Cadmium - Dissolved (mg/L)



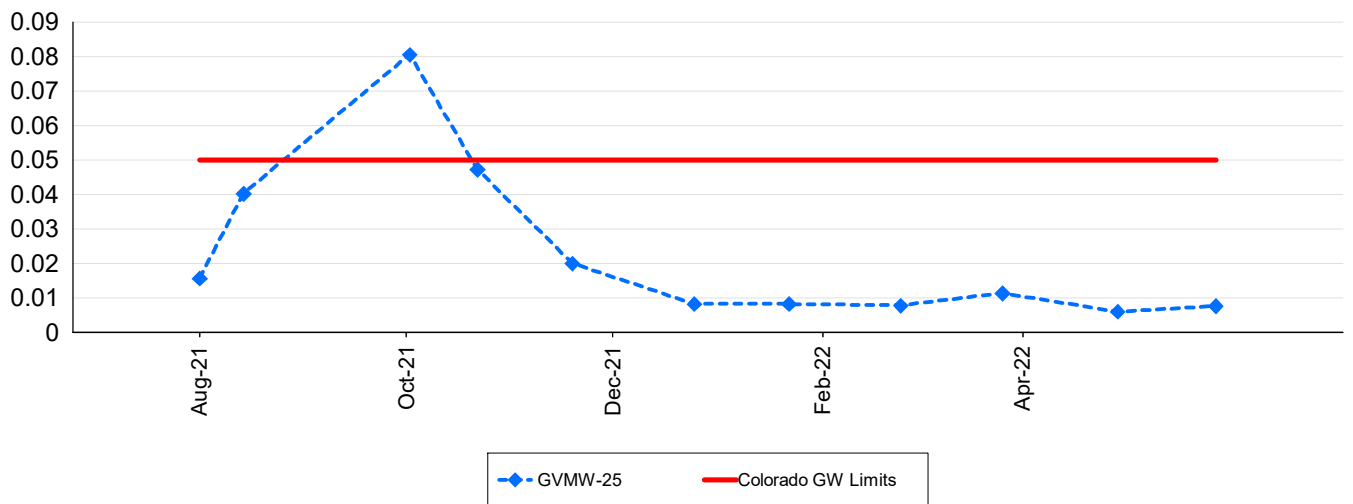
: Chloride - Total (mg/L)



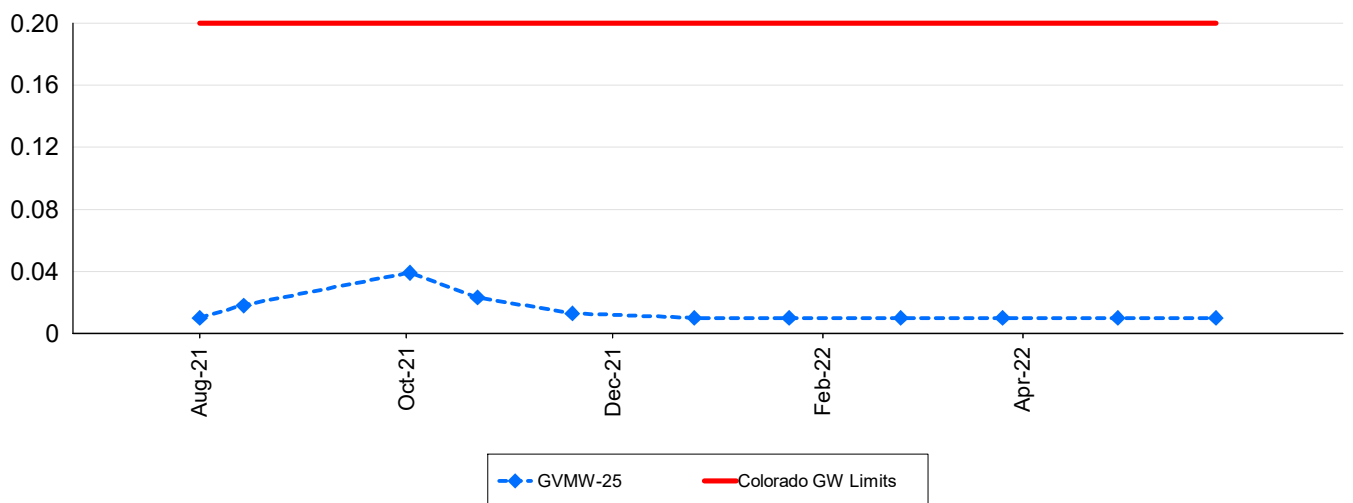
: Chromium - Dissolved (mg/L)



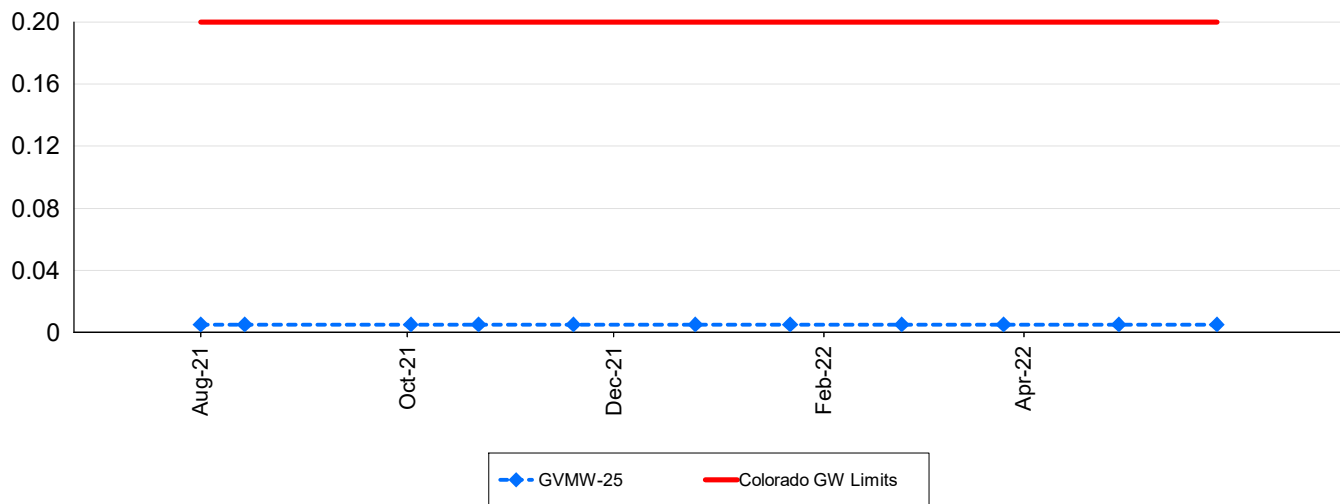
: Cobalt - Dissolved (mg/L)



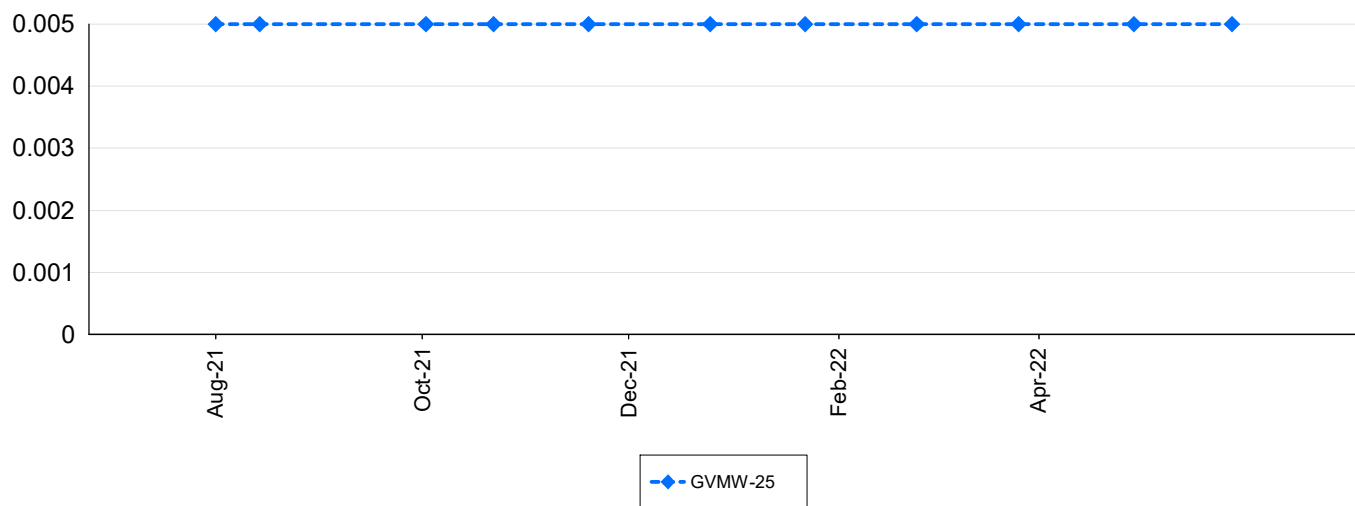
: Copper - Dissolved (mg/L)



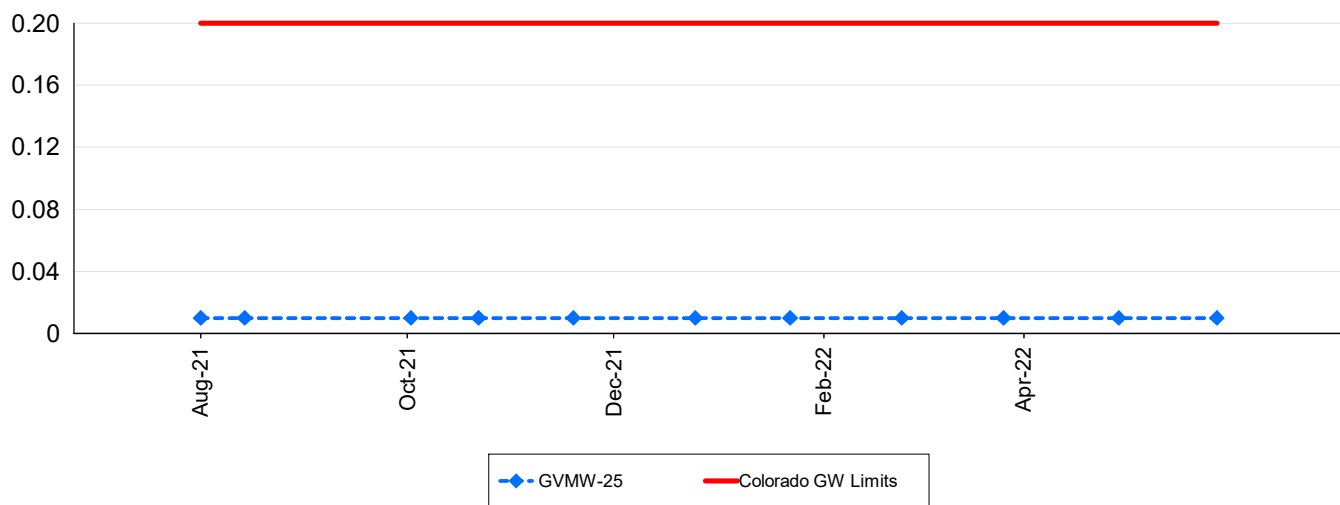
: Cyanide - Free (mg/L)



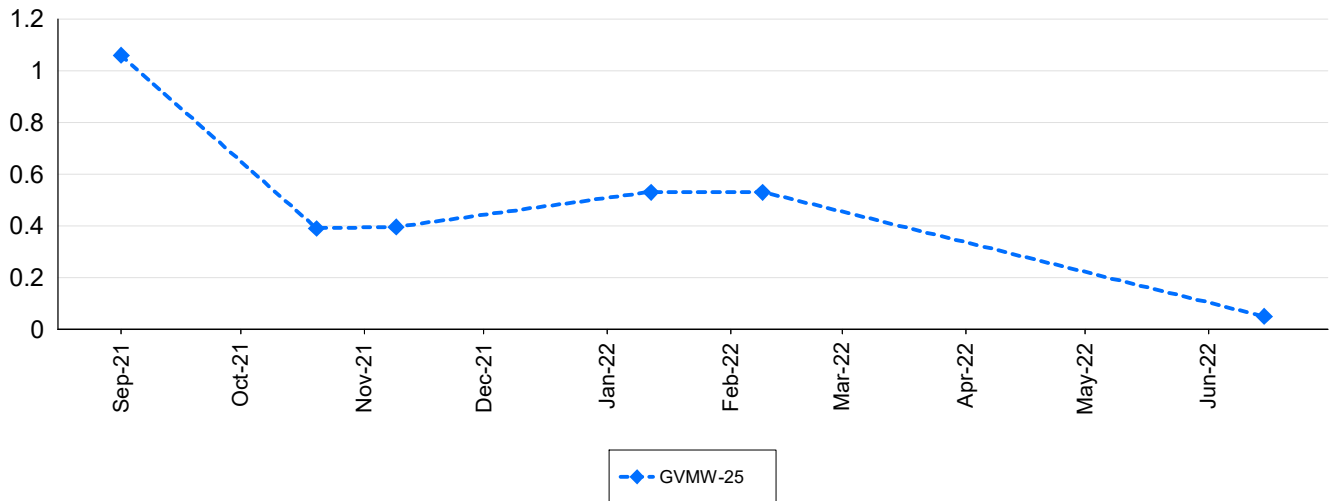
: Cyanide - Total (mg/L)



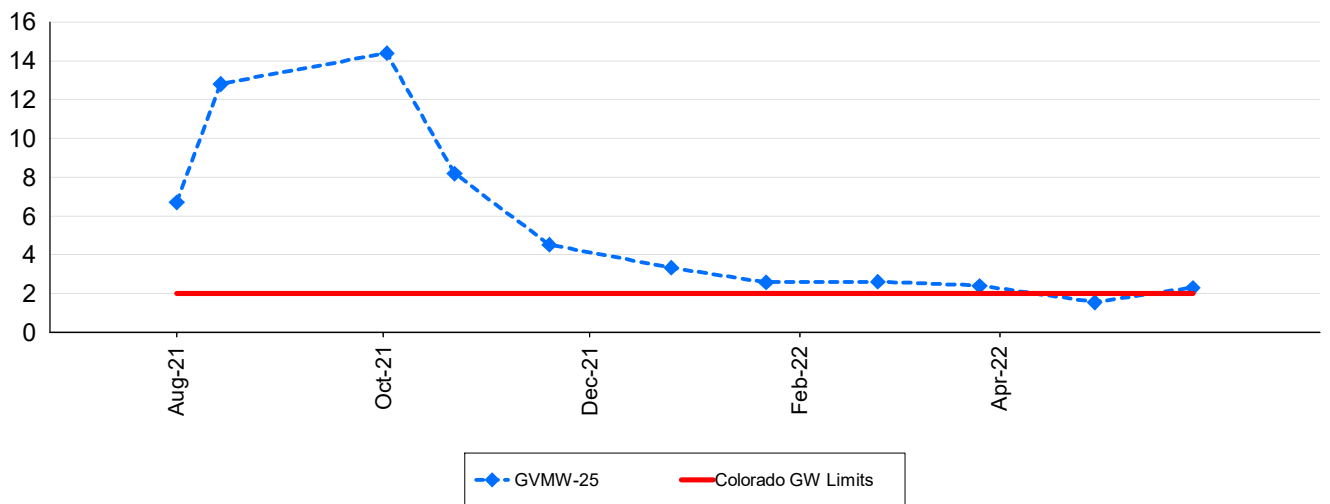
: Cyanide - WAD (mg/L)



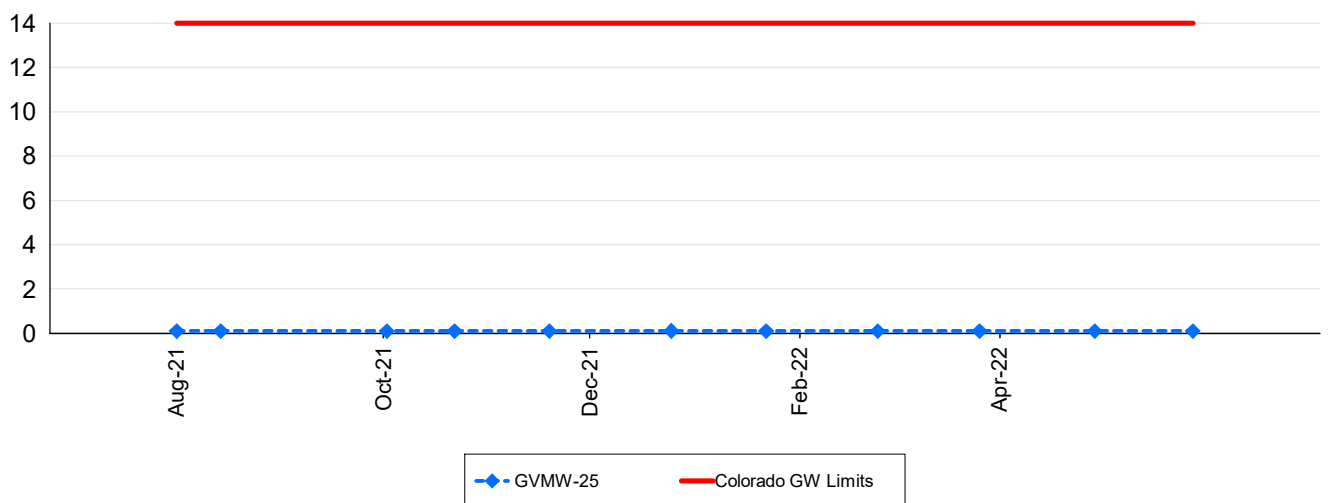
: Flow (gpm)



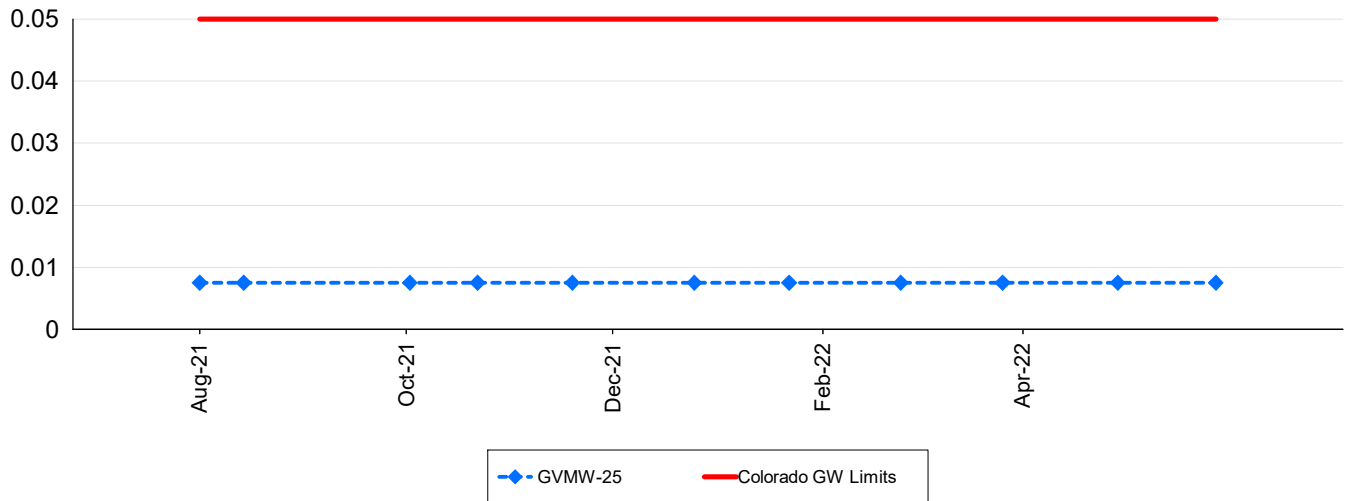
: Fluoride - Total F (mg/L)



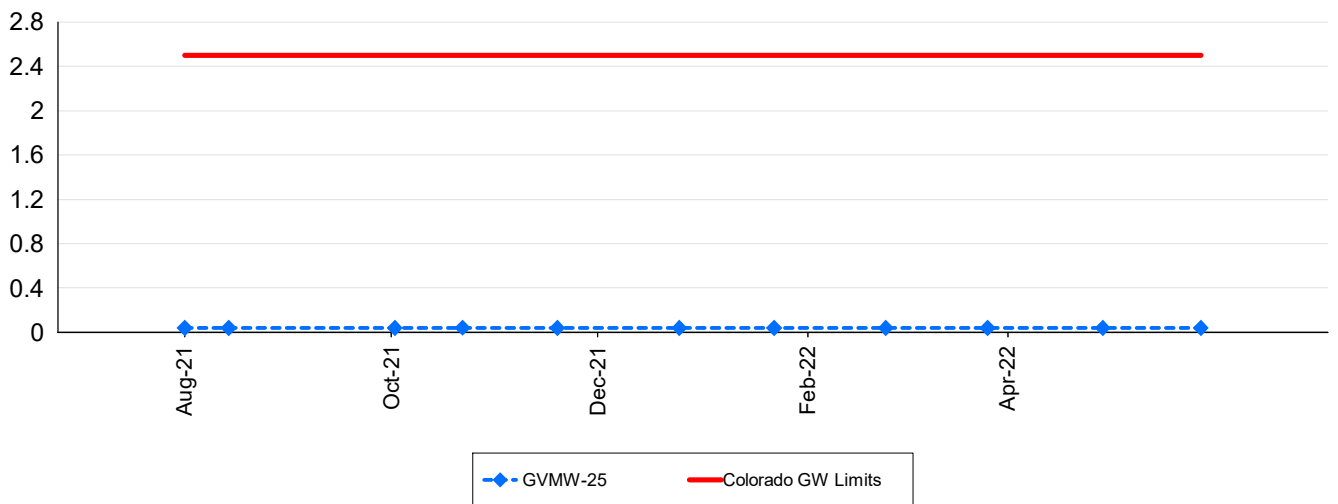
: Iron - Dissolved (mg/L)



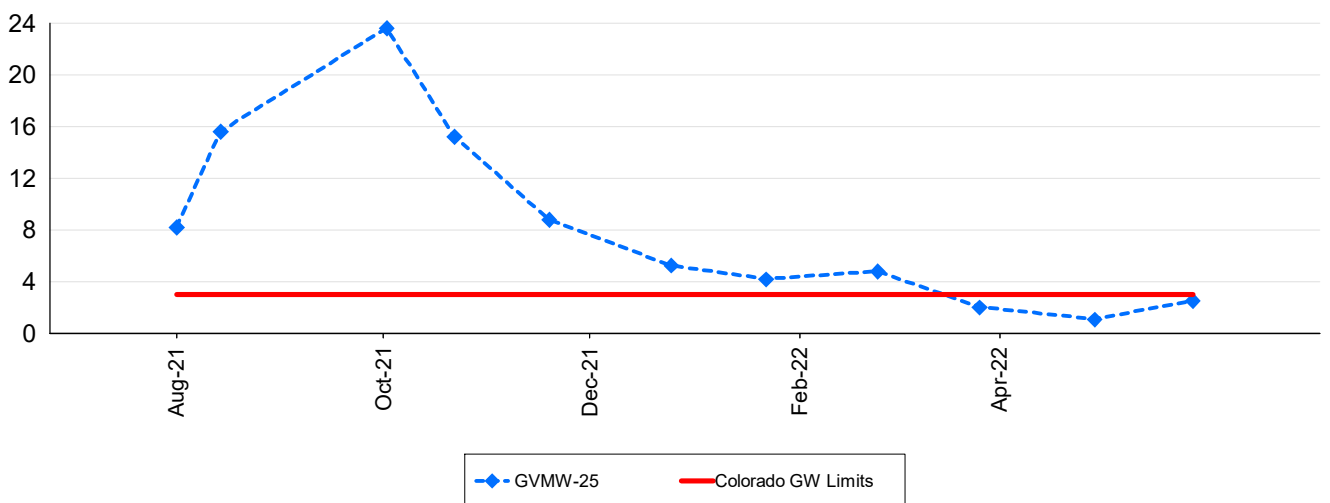
: Lead - Dissolved (mg/L)



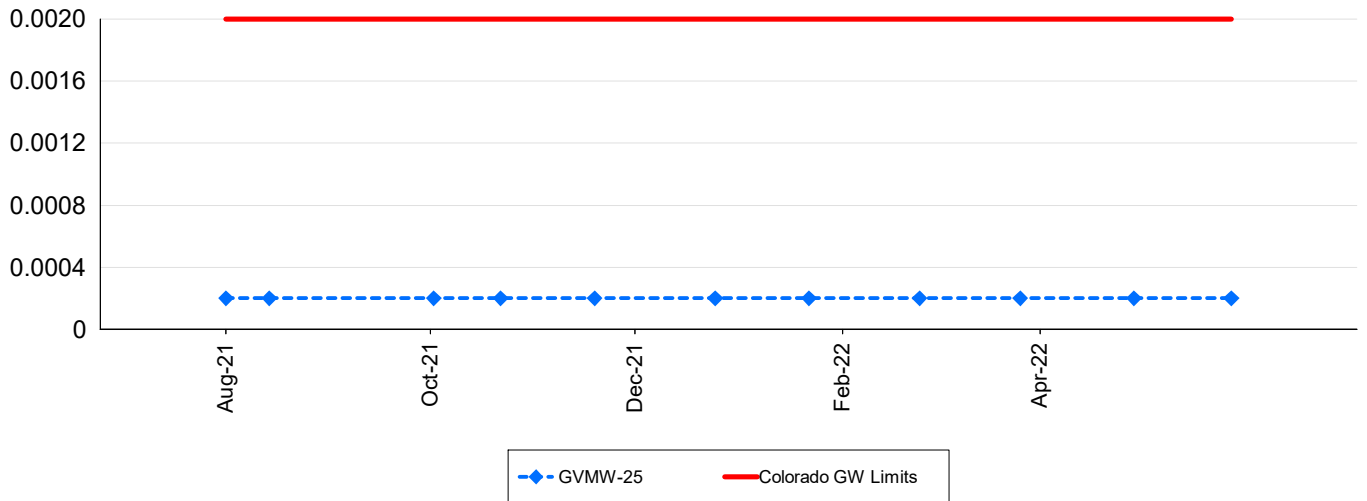
: Lithium - Dissolved (mg/L)



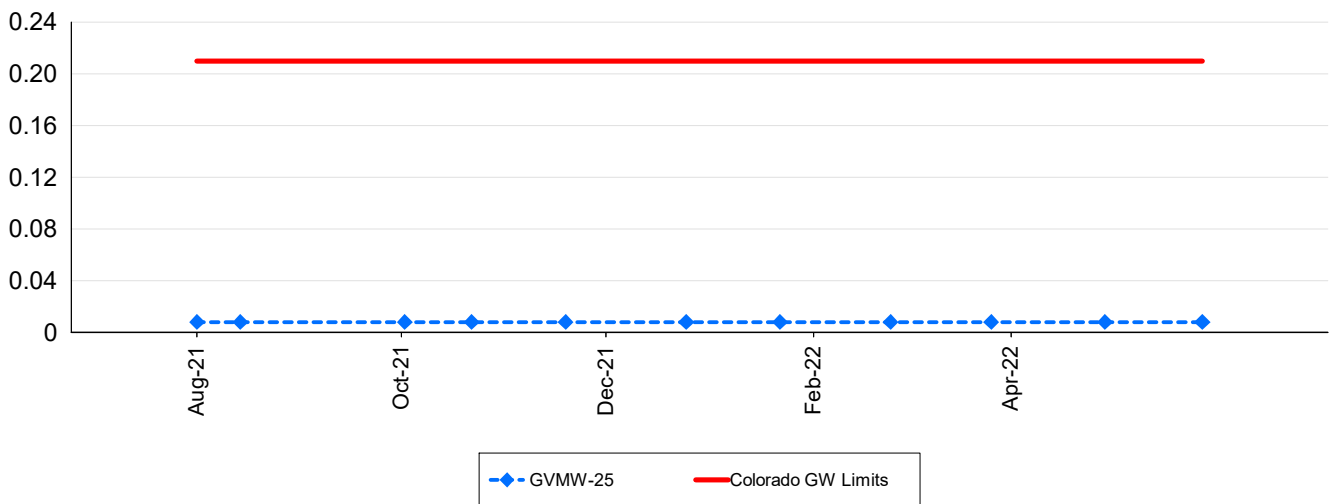
: Manganese - Dissolved (mg/L)



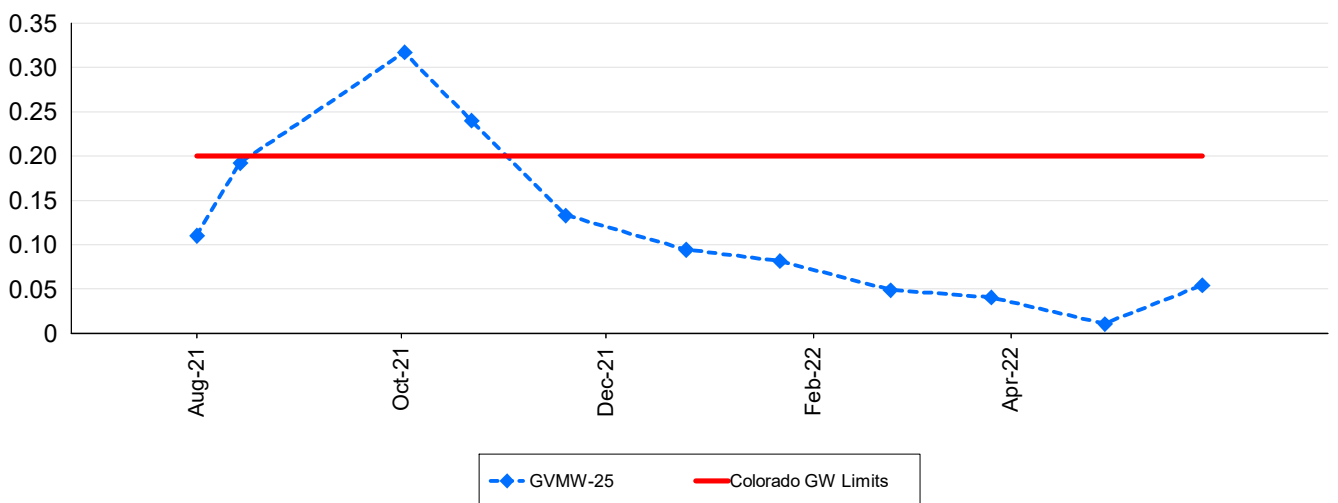
: Mercury - Dissolved (mg/L)



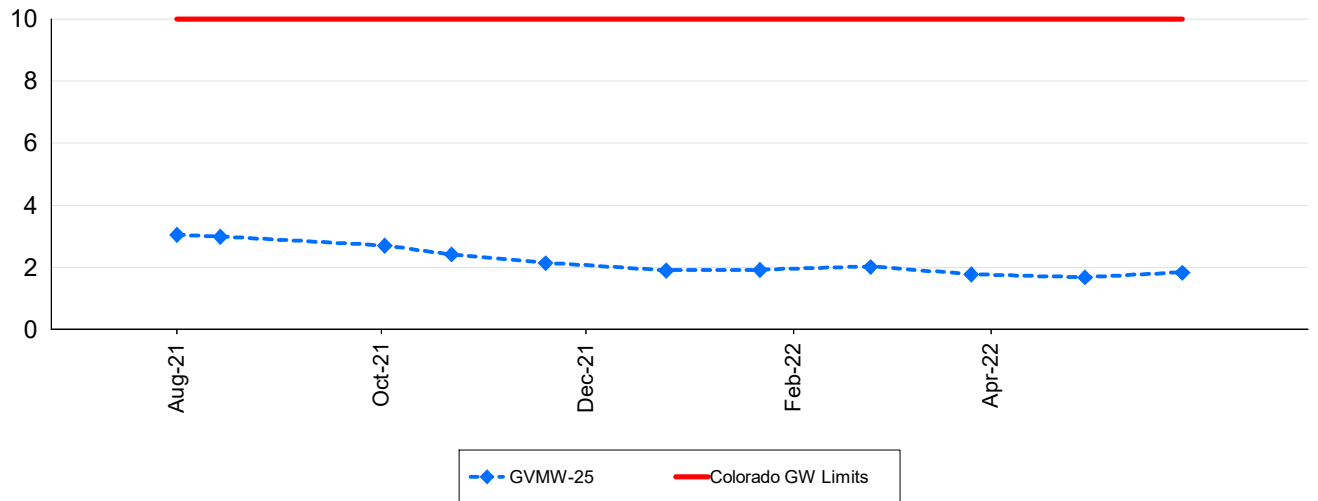
: Molybdenum - Dissolved (mg/L)



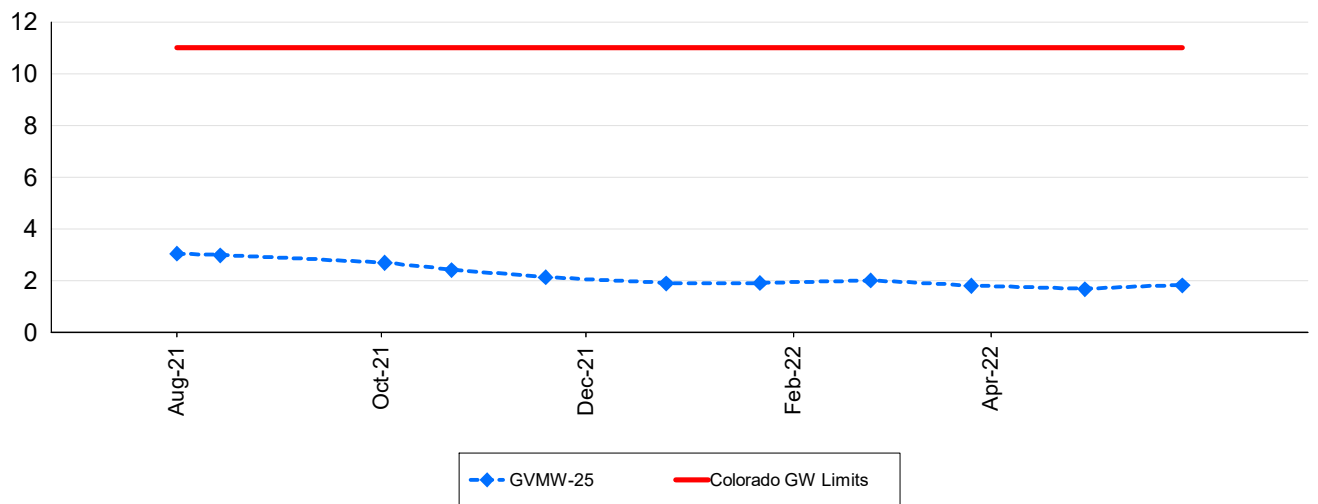
: Nickel - Dissolved (mg/L)



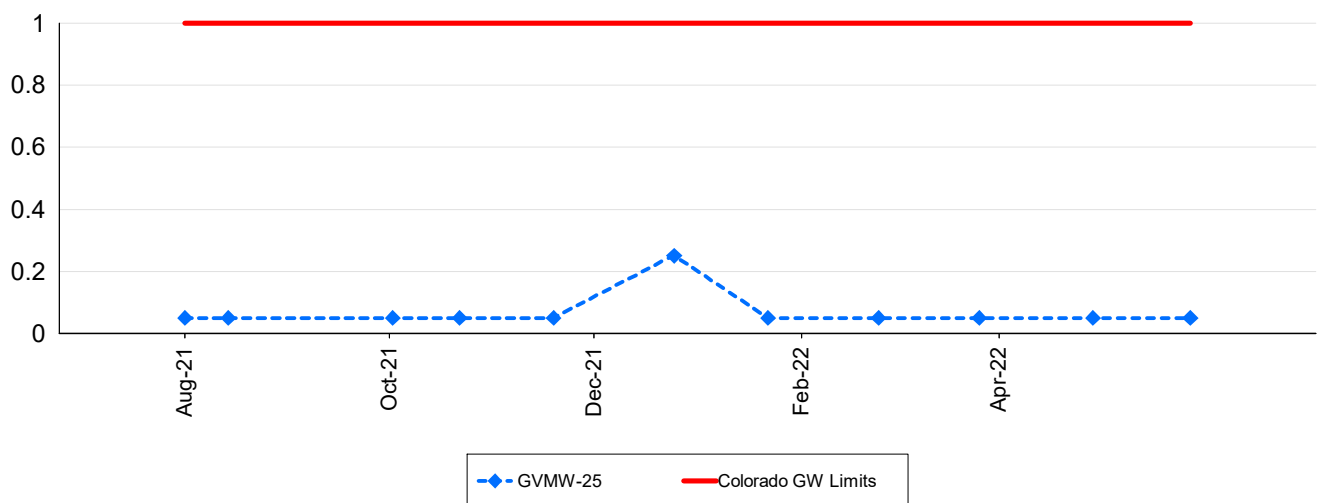
: Nitrate as Nitrogen (mg/L)



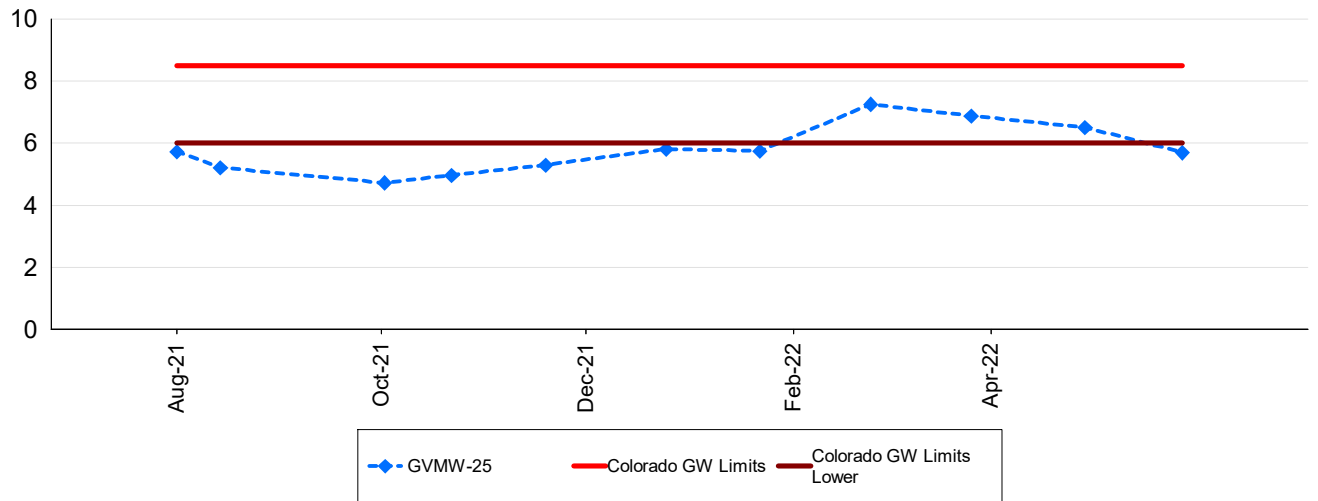
: Nitrite + Nitrate as Nitrogen (mg/L)



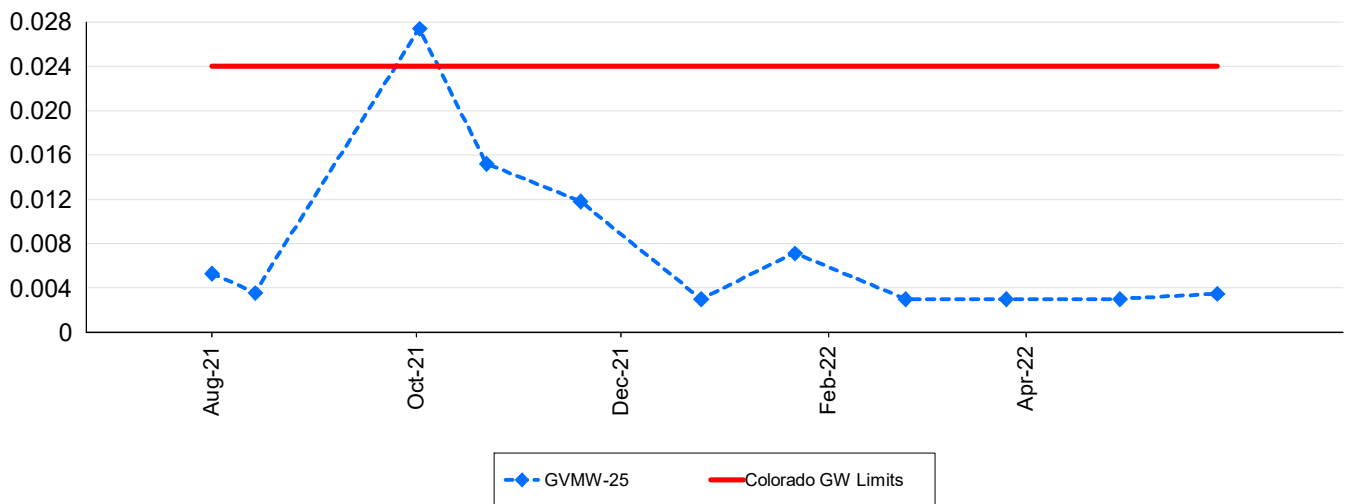
: Nitrite as Nitrogen (mg/L)



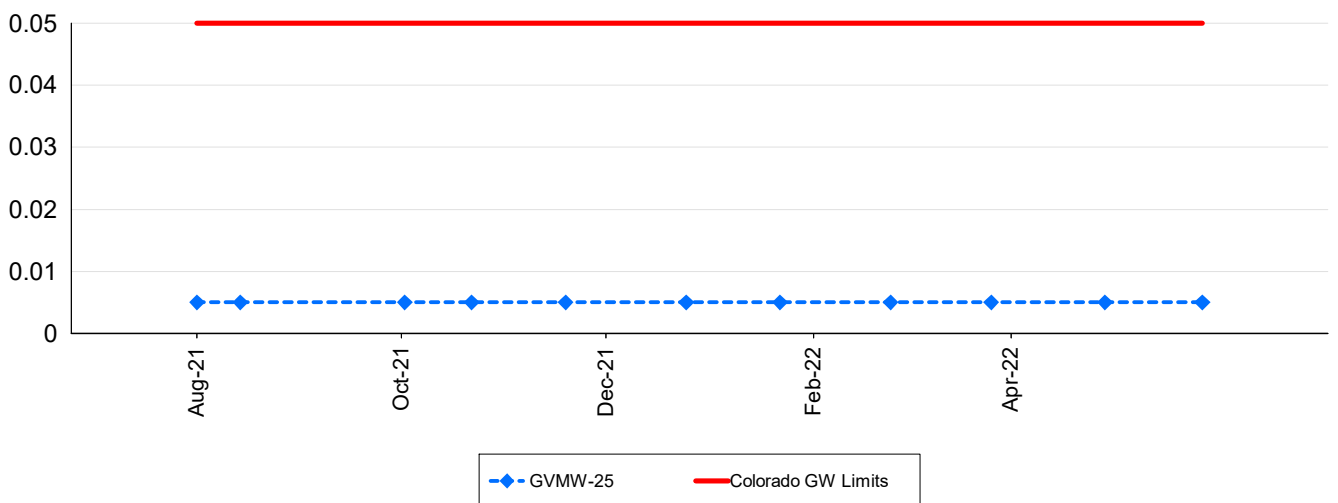
: pH Field (pH unit)



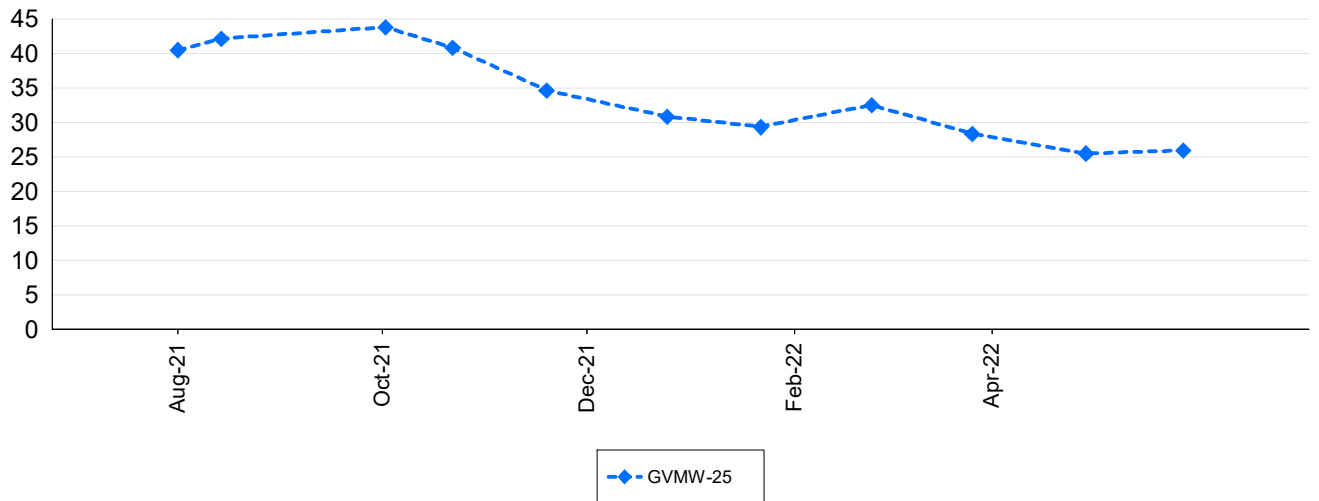
: Selenium - Dissolved (mg/L)



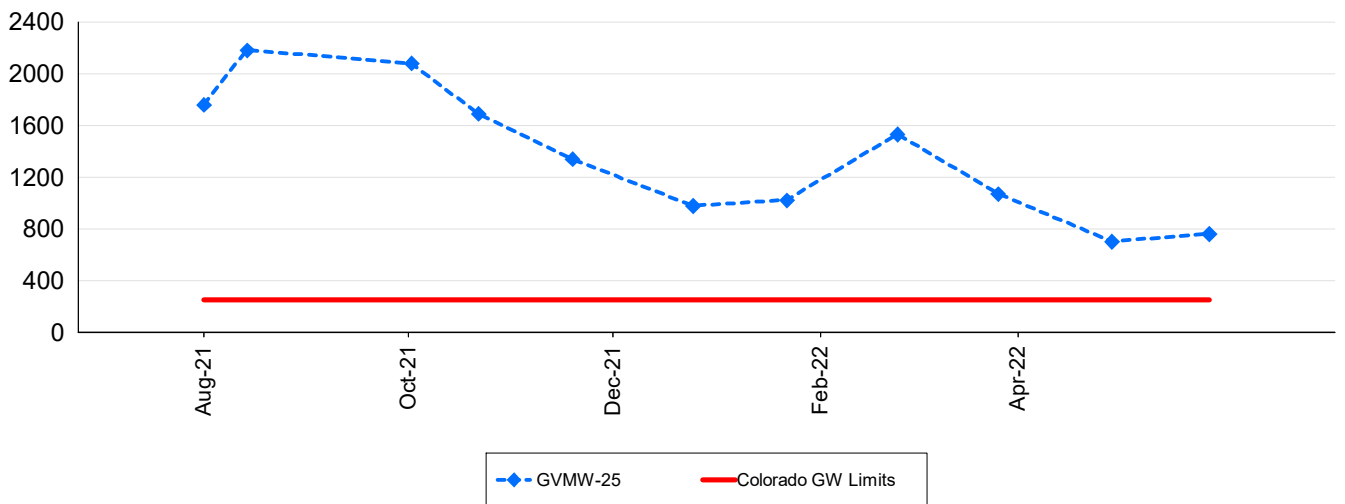
: Silver - Dissolved (mg/L)



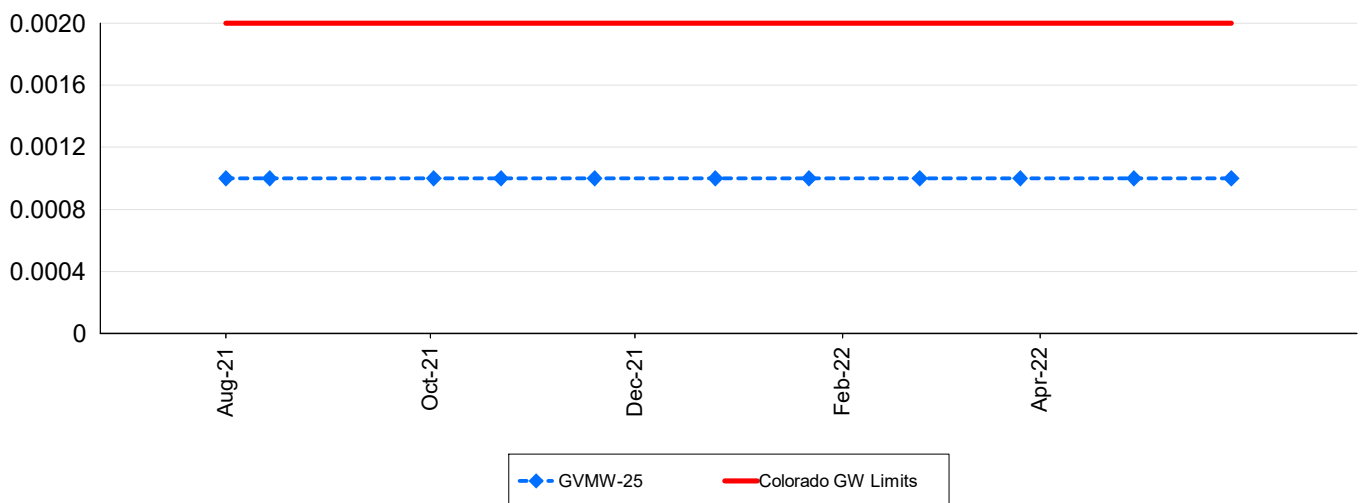
: Sodium - Dissolved (mg/L)



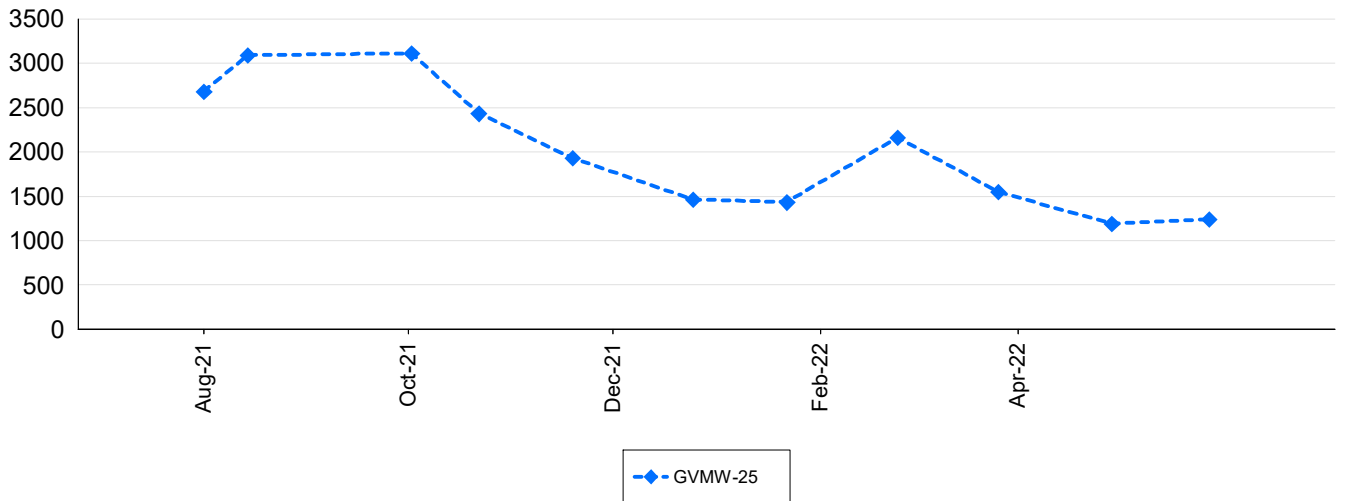
: Sulfate - Total (mg/L)



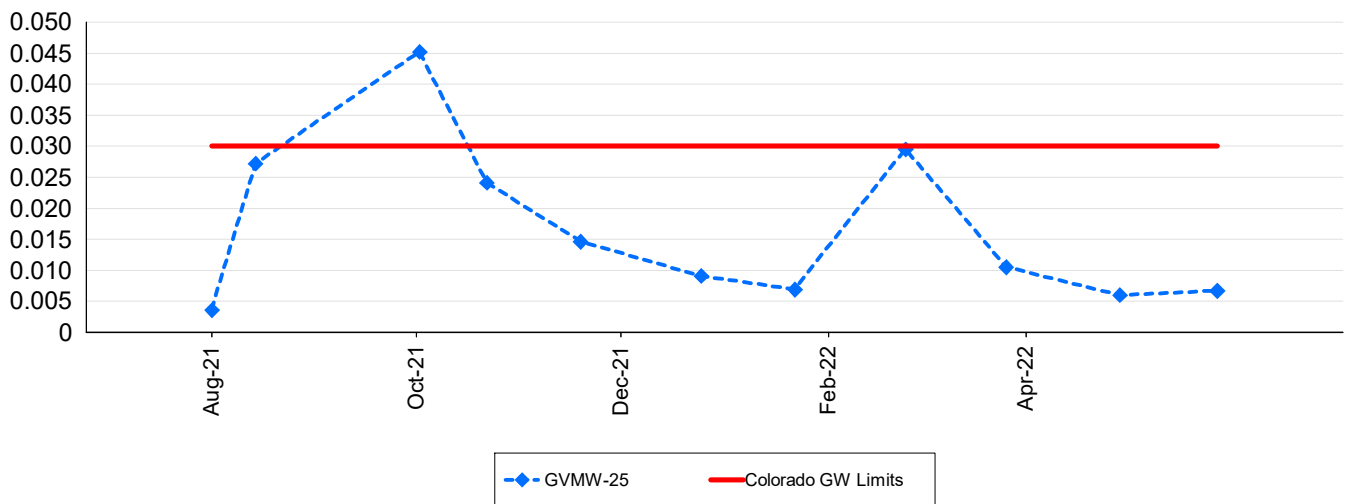
: Thallium - Dissolved (mg/L)



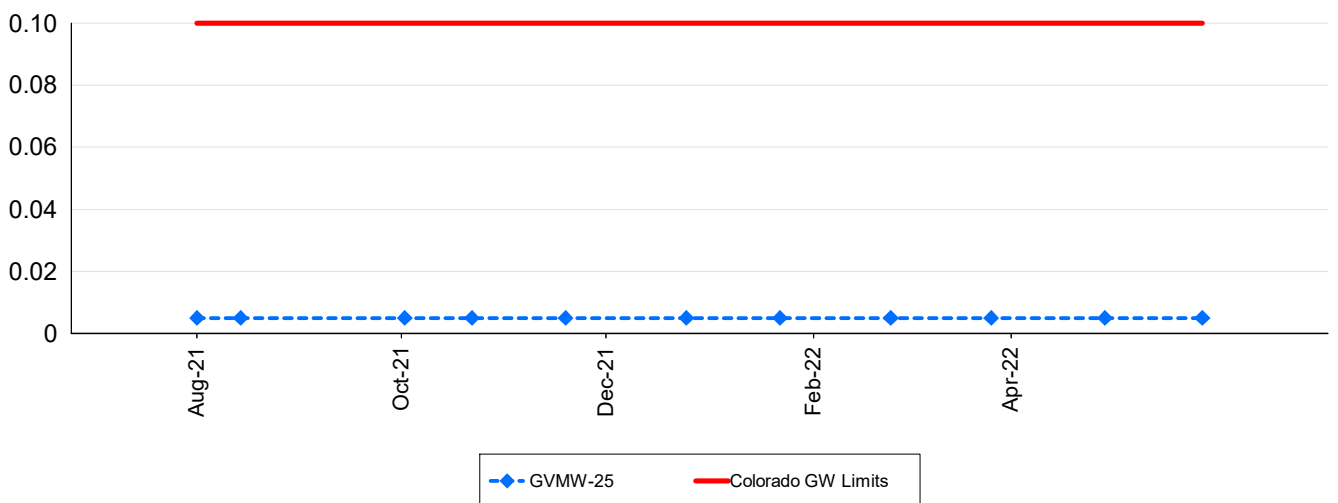
: Total Dissolved Solids (mg/L)



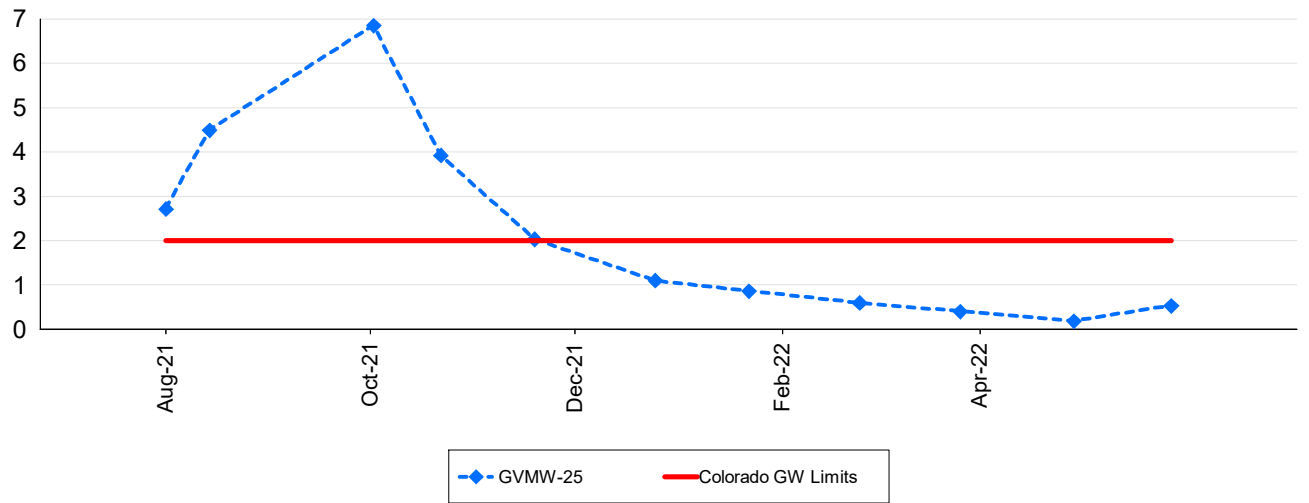
: Uranium - Dissolved (mg/L)



: 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: **X2F0328**

Reported: 29-Jun-22 16:16

Client Sample ID: **GVMW-25**

Sampled: 15-Jun-22 14:50

Received: 16-Jun-22

Sampled By: BOD

SVL Sample ID: **X2F0328-02 (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	222	mg/L	0.100	0.035		X225260	DT	06/25/22 17:01	
EPA 200.7	Magnesium	52.2	mg/L	0.500	0.045		X225260	DT	06/25/22 17:01	
EPA 200.7	Potassium	3.60	mg/L	0.50	0.09		X225260	DT	06/25/22 17:01	
SM 2340 B	Hardness (as CaCO3)	769	mg/L	2.31	0.271		N/A		06/27/22 12:22	
Metals (Dissolved)										
EPA 200.7	Aluminum	2.50	mg/L	0.080	0.054		X225249	AS	06/27/22 12:22	
EPA 200.7	Barium	0.0189	mg/L	0.0020	0.0019		X225249	AS	06/27/22 12:22	
EPA 200.7	Beryllium	0.00660	mg/L	0.00200	0.00080		X225249	AS	06/27/22 12:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X225249	AS	06/27/22 12:22	
EPA 200.7	Cadmium	0.0170	mg/L	0.0020	0.0016		X225249	AS	06/27/22 12:22	
EPA 200.7	Calcium	197	mg/L	0.100	0.069		X225249	AS	06/27/22 12:22	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X225249	AS	06/27/22 12:22	
EPA 200.7	Cobalt	0.0076	mg/L	0.0060	0.0046		X225249	AS	06/27/22 12:22	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X225249	AS	06/28/22 07:03	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X225249	AS	06/27/22 12:22	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X225249	AS	06/27/22 12:22	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X225249	AS	06/27/22 12:22	
EPA 200.7	Magnesium	49.2	mg/L	0.500	0.090		X225249	AS	06/27/22 12:22	
EPA 200.7	Manganese	2.51	mg/L	0.0080	0.0034		X225249	AS	06/28/22 07:03	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X225249	AS	06/27/22 12:22	
EPA 200.7	Nickel	0.0542	mg/L	0.0100	0.0048		X225249	AS	06/27/22 12:22	
EPA 200.7	Potassium	3.35	mg/L	0.50	0.18		X225249	AS	06/27/22 12:22	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X225249	AS	06/27/22 12:22	
EPA 200.7	Sodium	25.9	mg/L	0.50	0.12		X225249	AS	06/27/22 12:22	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X225249	AS	06/27/22 12:22	
EPA 200.7	Zinc	0.525	mg/L	0.0100	0.0054		X225249	AS	06/27/22 12:22	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X225334	KAH	06/24/22 13:11	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X225334	KAH	06/24/22 13:11	
EPA 200.8	Selenium	0.00348	mg/L	0.00300	0.00024		X225334	KAH	06/28/22 15:55	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X225334	KAH	06/24/22 13:11	
EPA 200.8	Uranium	0.00669	mg/L	0.00100	0.000052		X225334	KAH	06/24/22 13:11	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X226025	JRR	06/23/22 12:14	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X226049	HJL	06/23/22 12:22	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X226156	KJR	06/24/22 13:50	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X226079	KJR	06/21/22 18:04	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X226050	HJL	06/23/22 10:29	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X226188	MWD	06/24/22 10:11	
SM 2320 B	Total Alkalinity	10.3	mg/L as CaCO3	1.0			X225239	MWD	06/17/22 09:36	
SM 2320 B	Bicarbonate	10.3	mg/L as CaCO3	1.0			X225239	MWD	06/17/22 09:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X225239	MWD	06/17/22 09:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X225239	MWD	06/17/22 09:36	
SM 2540 C	Total Diss. Solids	1240	mg/L	10			X226086	TJL	06/21/22 16:30	
SM 2540 D	Total Susp. Solids	9.0	mg/L	5.0			X226087	TJL	06/21/22 16:30	
SM 4500 H B	pH @18.7°C	5.6	pH Units				X225239	MWD	06/17/22 09:36	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 11



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www.svl.net

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

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X2F0328**

Reported: 29-Jun-22 16:16

Client Sample ID: **GVMW-25**

Sampled: 15-Jun-22 14:50

SVL Sample ID: **X2F0328-02 (Ground Water)**

Received: 16-Jun-22

Sample Report Page 2 of 2

Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	12.9	mg/L	5.00	3.50	25	X225244	EBR	06/16/22 22:44	D2
EPA 300.0	Fluoride	2.29	mg/L	0.100	0.062		X225244	EBR	06/16/22 21:46	
EPA 300.0	Nitrate as N	1.82	mg/L	0.050	0.043		X225244	EBR	06/16/22 21:46	
EPA 300.0	Nitrate+Nitrite as N	1.82	mg/L	0.100	0.074		X225244	EBR	06/16/22 21:46	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X225244	EBR	06/16/22 21:46	
EPA 300.0	Sulfate as SO4	760	mg/L	7.50	4.50	25	X225244	EBR	06/16/22 22:44	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 15.5 meq/L Anion Sum: 16.6 meq/L C/A Balance: -3.61 % Calculated TDS: 1079 TDS/cTDS: 1.15

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

Herman J. Haring
Project Manager