

STATE OF
COLORADO

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

CC&V - Monthly GVMW-25 update

Ronald Parratt <Ronald.Parratt@newmont.com>

Thu, Aug 25, 2022 at 2:26 PM

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

Cc: Katie Blake <Katie.Blake@newmont.com>, Norma Townley <Norma.Townley2@newmont.com>

Good afternoon Ms. Eschberger,

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

Best Regards,

Ron

Ronald Parratt

Site Water Coordinator

Water & Energy Specialist



100 North 3rd Street

Victor, Colorado 80860

[O 719.851.4019](tel:719.851.4019)

[M 719.429.8522](tel:719.429.8522)

[NEWMONT.COM](http://newmont.com)

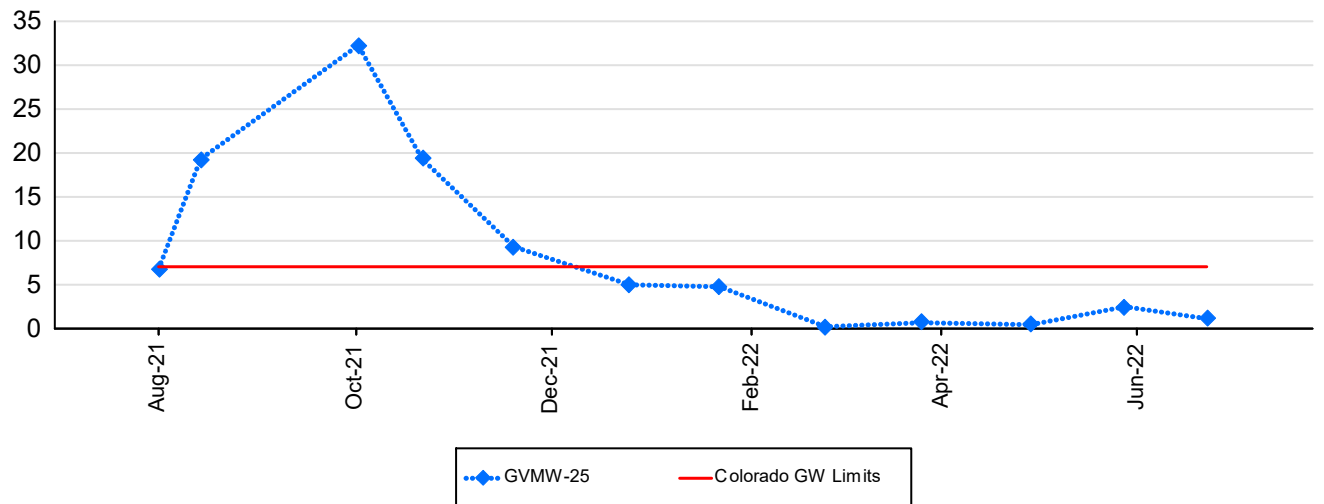
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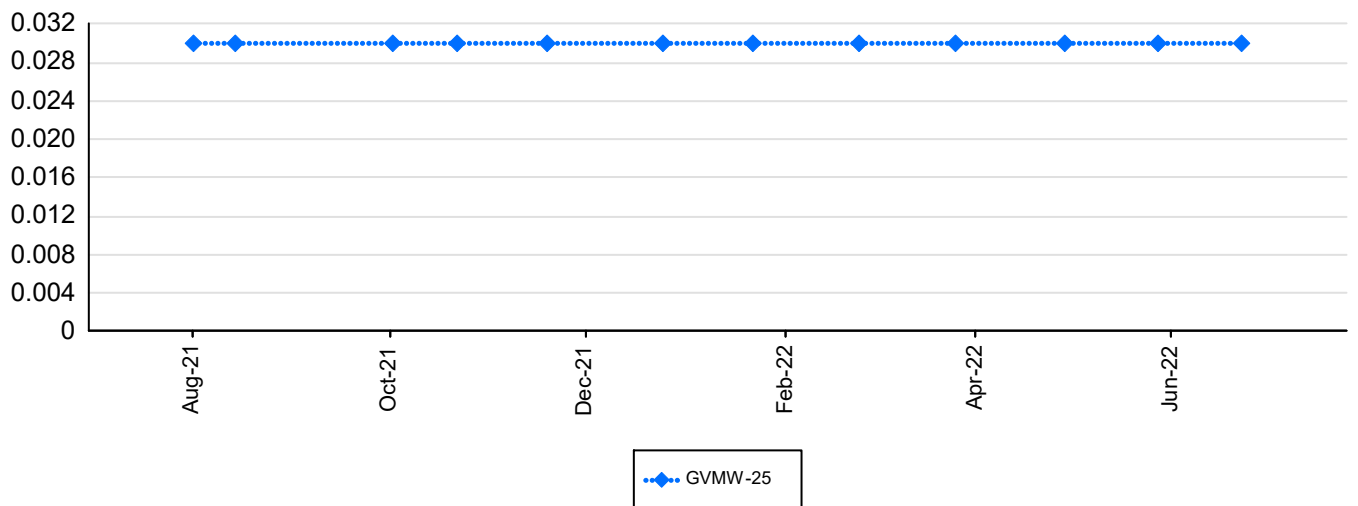
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 **GVMW-25 July 2022 Update Report.pdf**

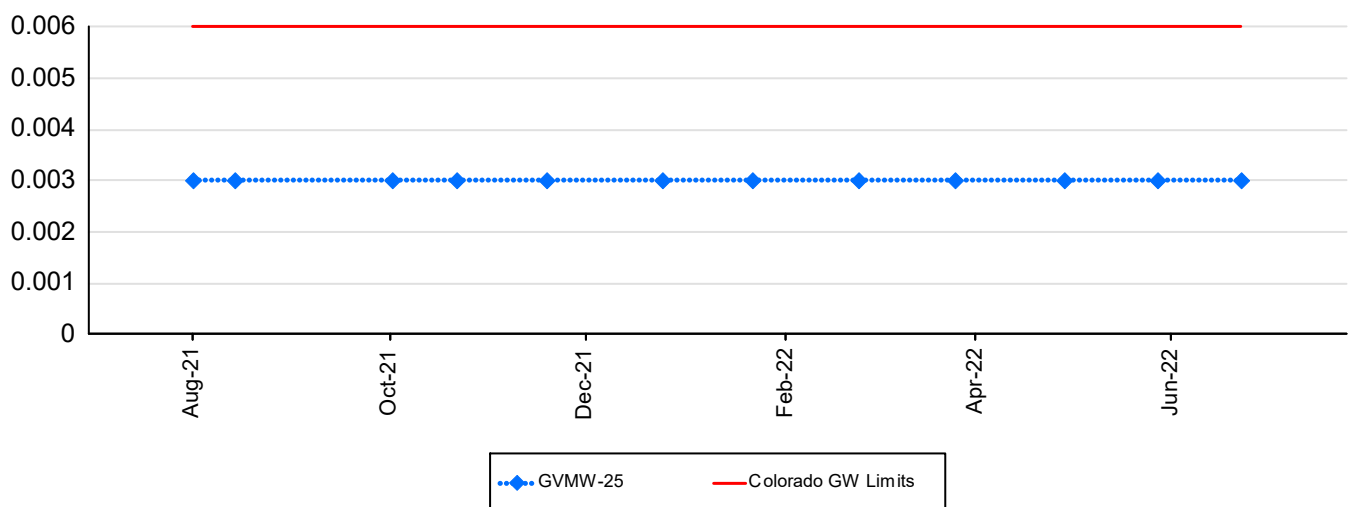
: Aluminium - Dissolved (mg/L)



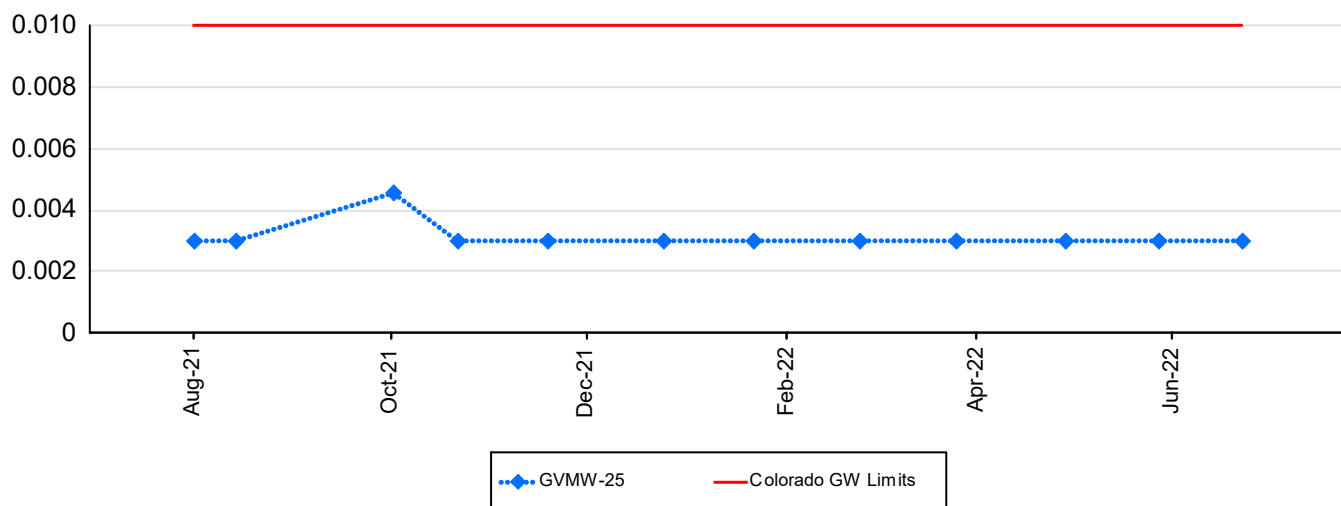
: Ammonia (mg/L)



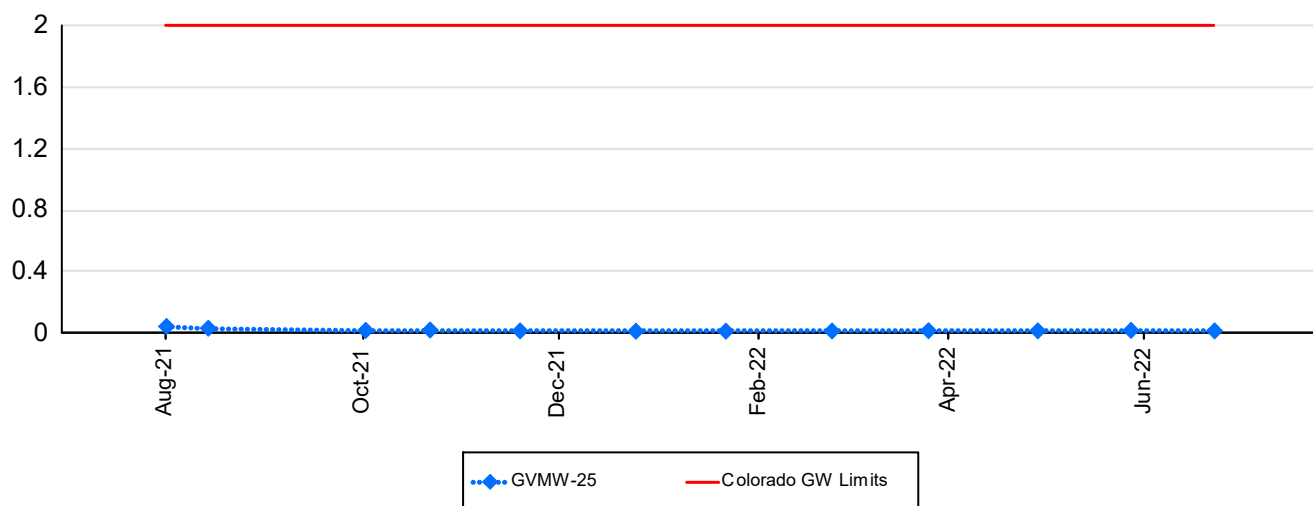
: Antimony - Dissolved (mg/L)



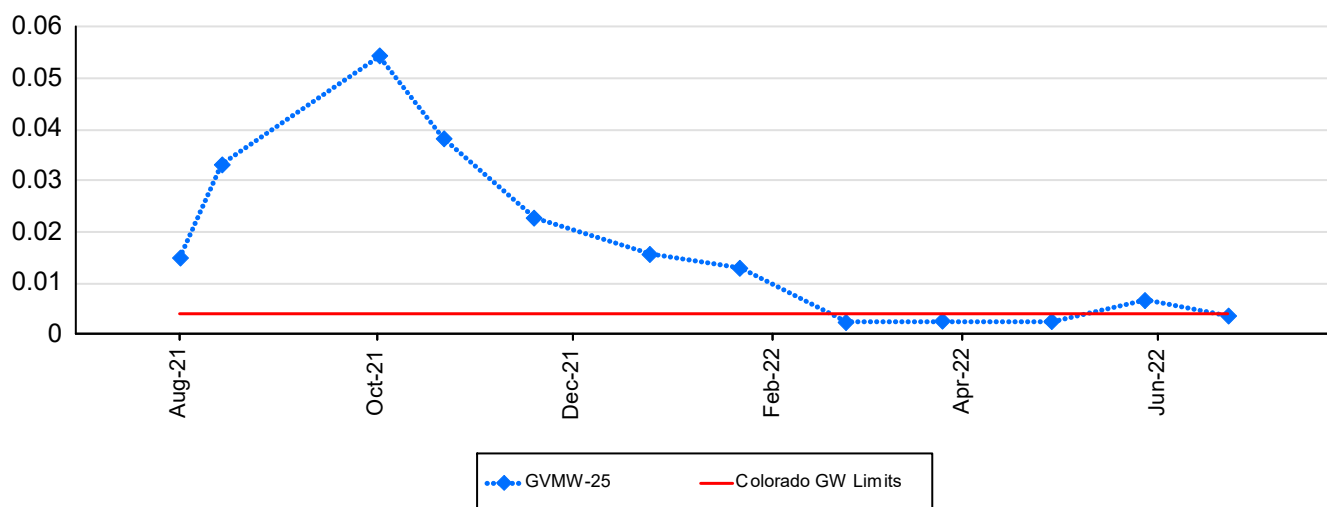
: Arsenic - Dissolved (mg/L)



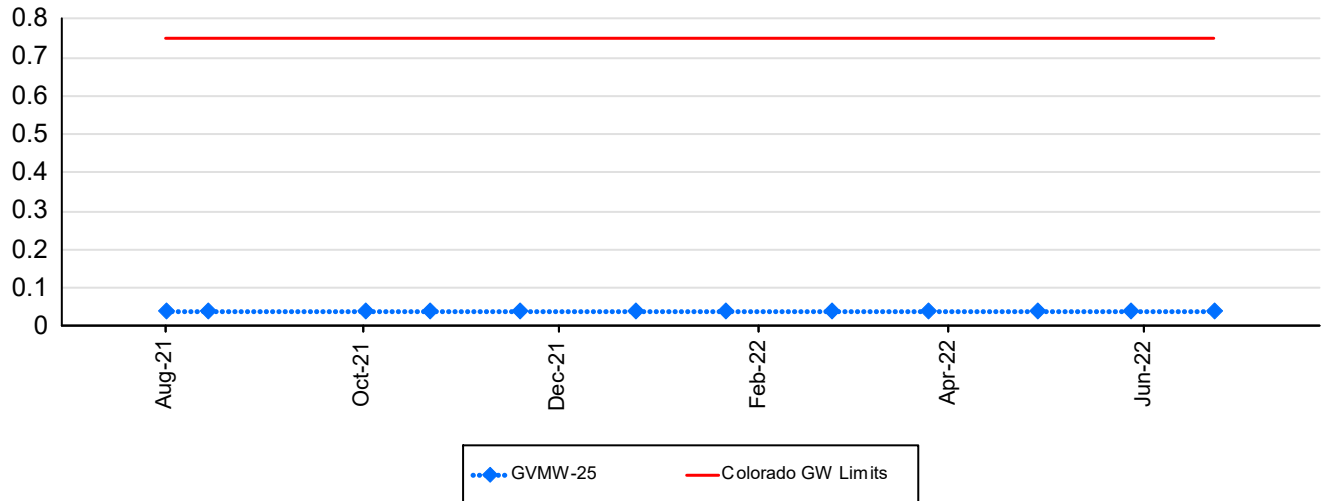
: Barium - Dissolved (mg/L)



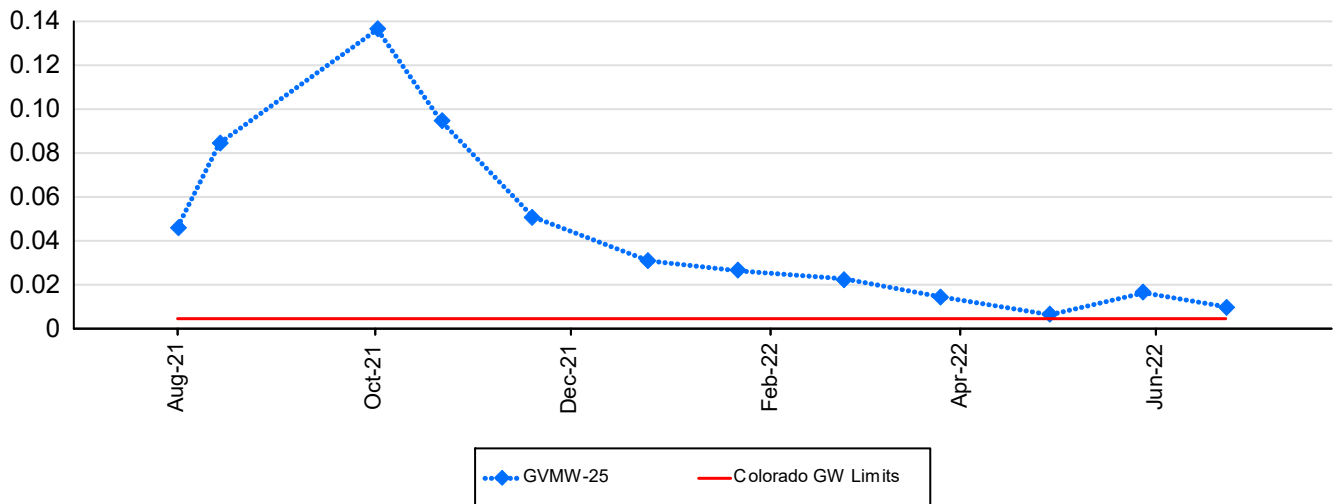
: Beryllium - Dissolved (mg/L)



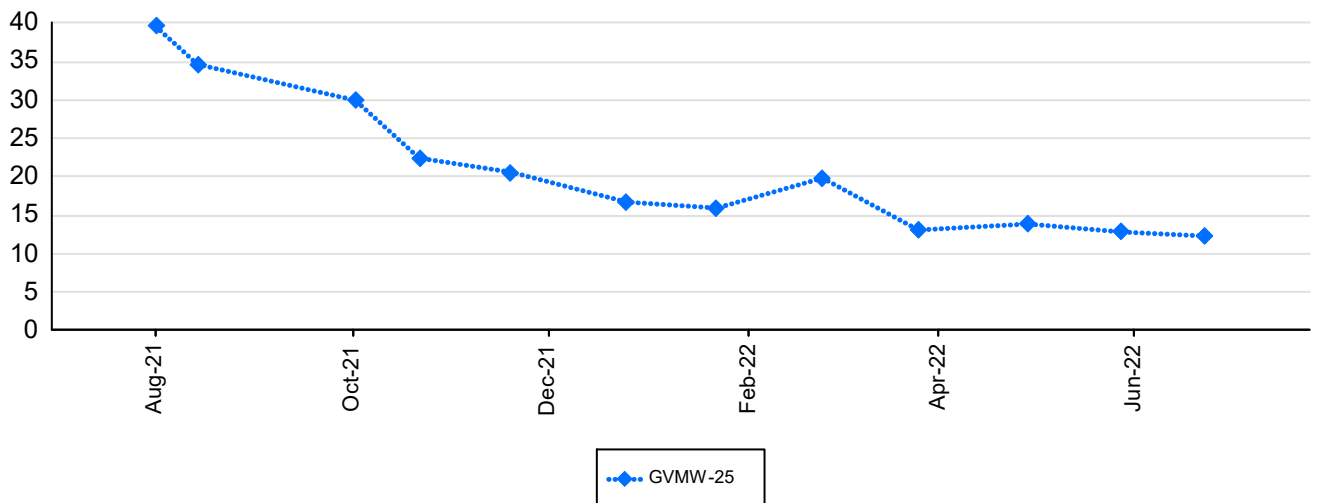
: Boron - Dissolved (mg/L)



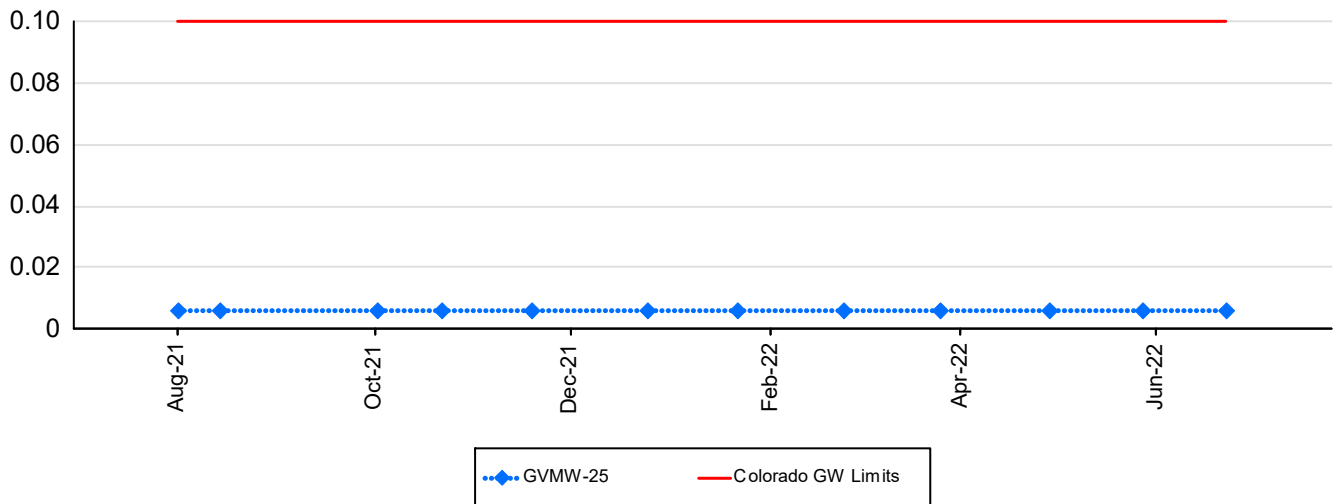
: Cadmium - Dissolved (mg/L)



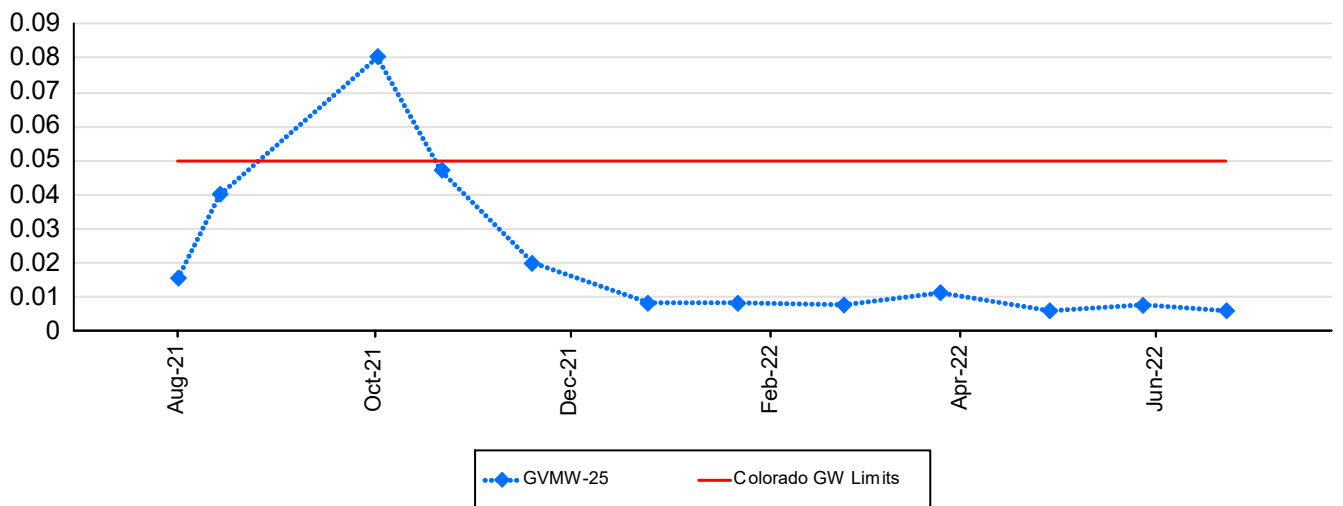
: Chloride - Total (mg/L)



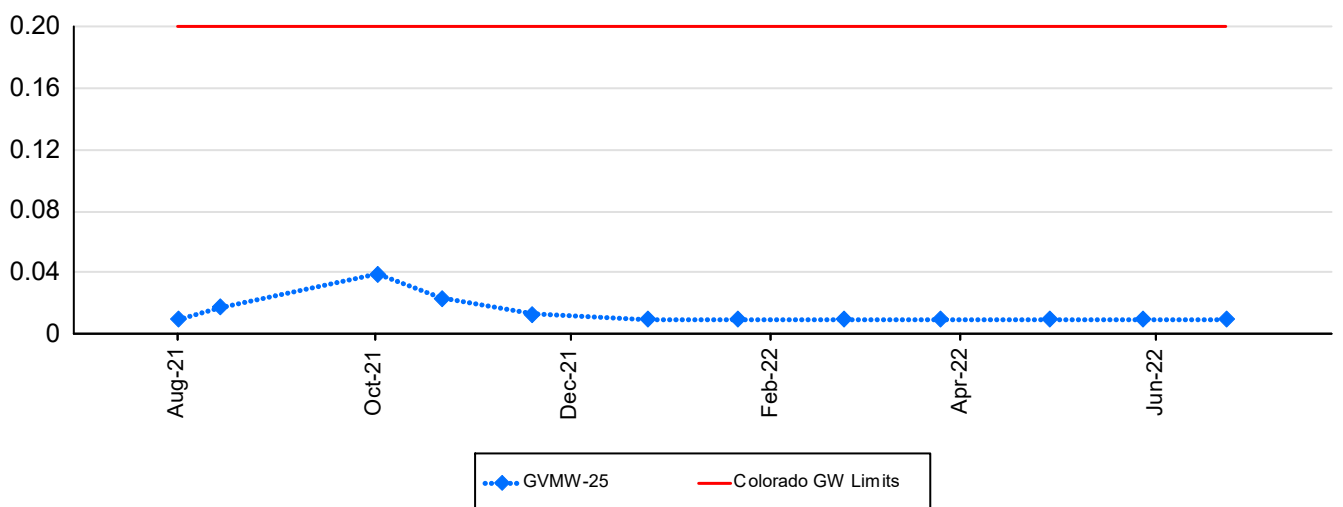
: Chromium - Dissolved (mg/L)



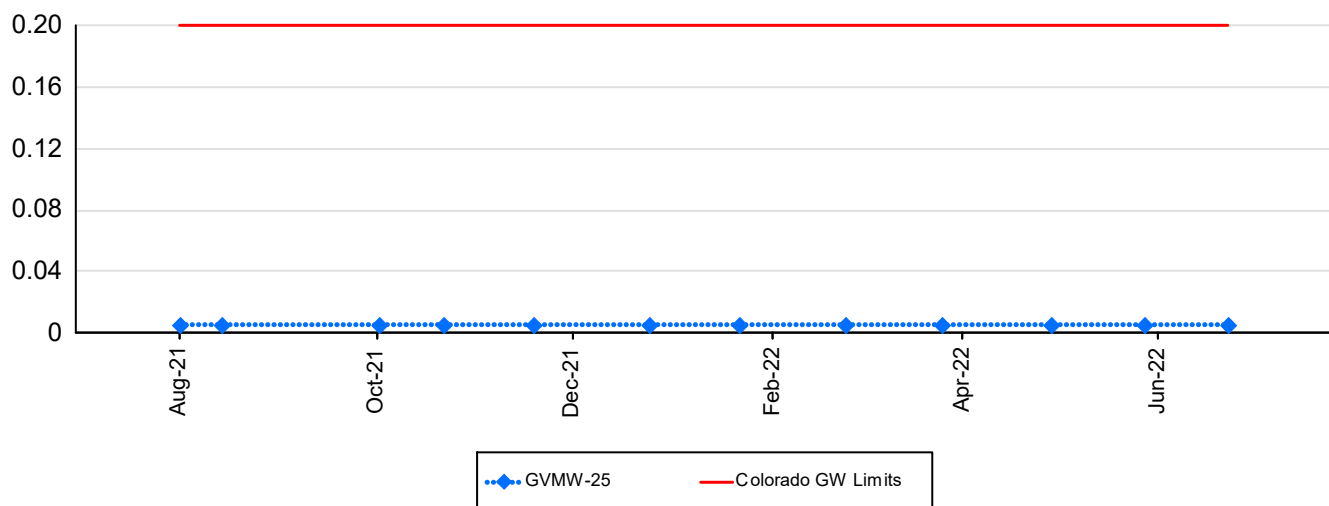
: Cobalt - Dissolved (mg/L)



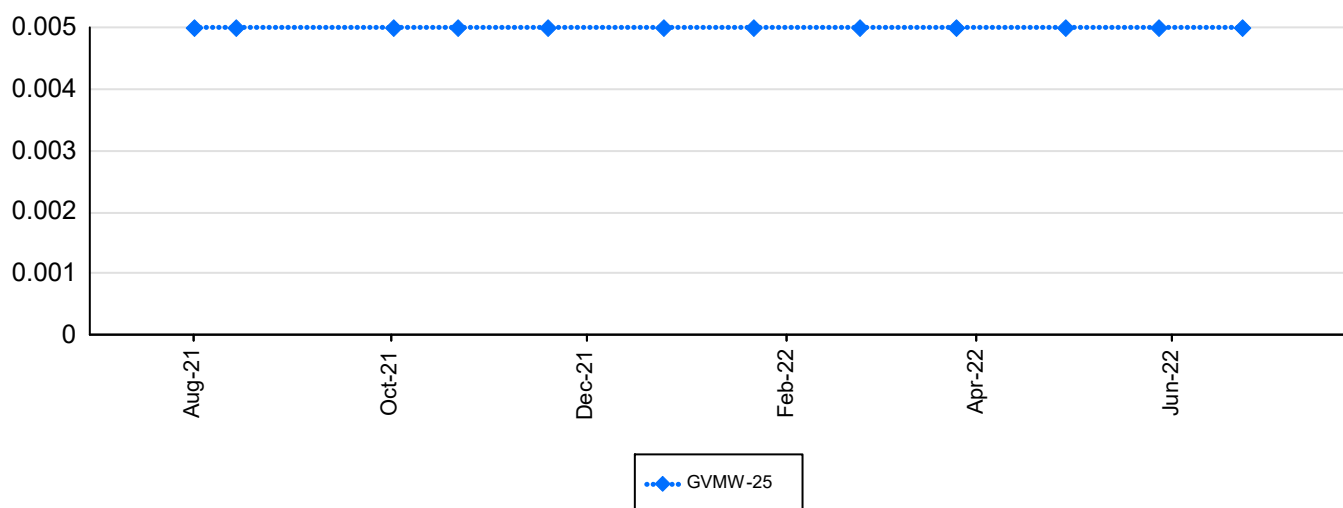
: Copper - Dissolved (mg/L)



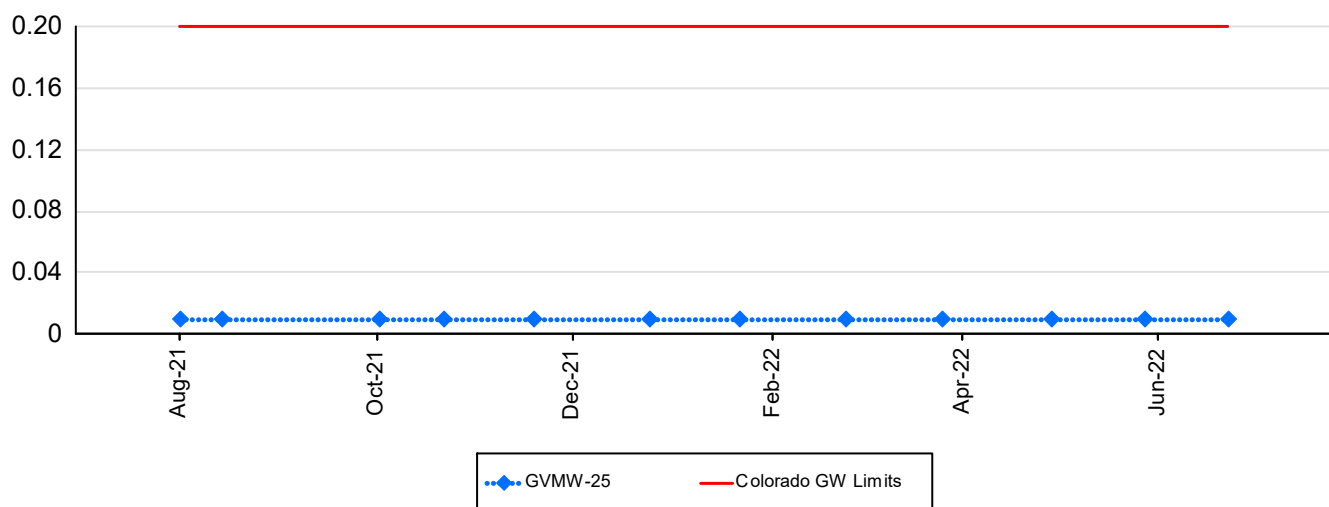
: Cyanide - Free (mg/L)



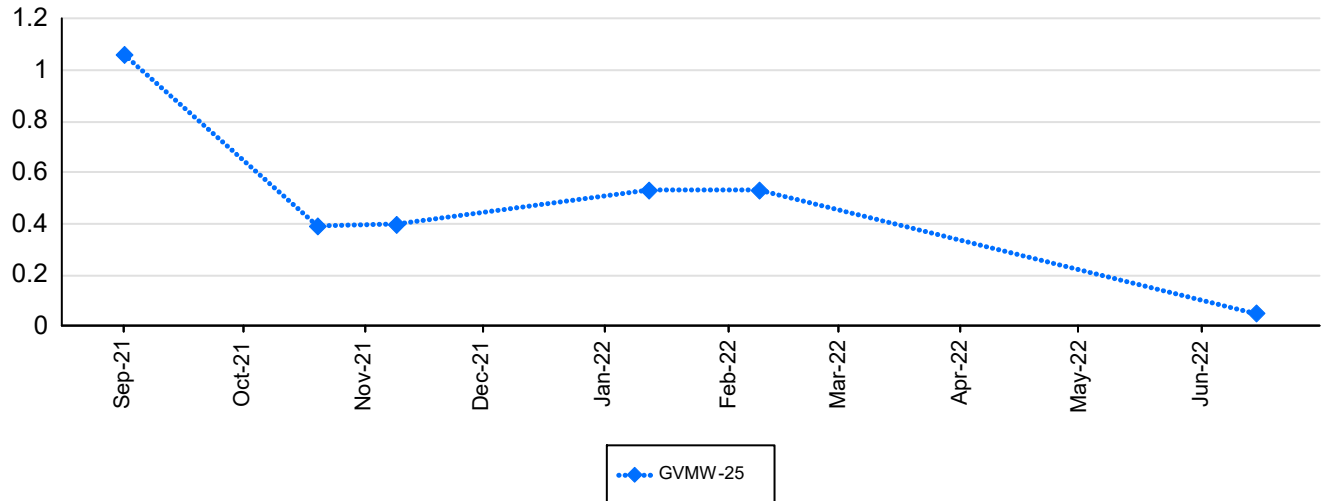
: Cyanide - Total (mg/L)



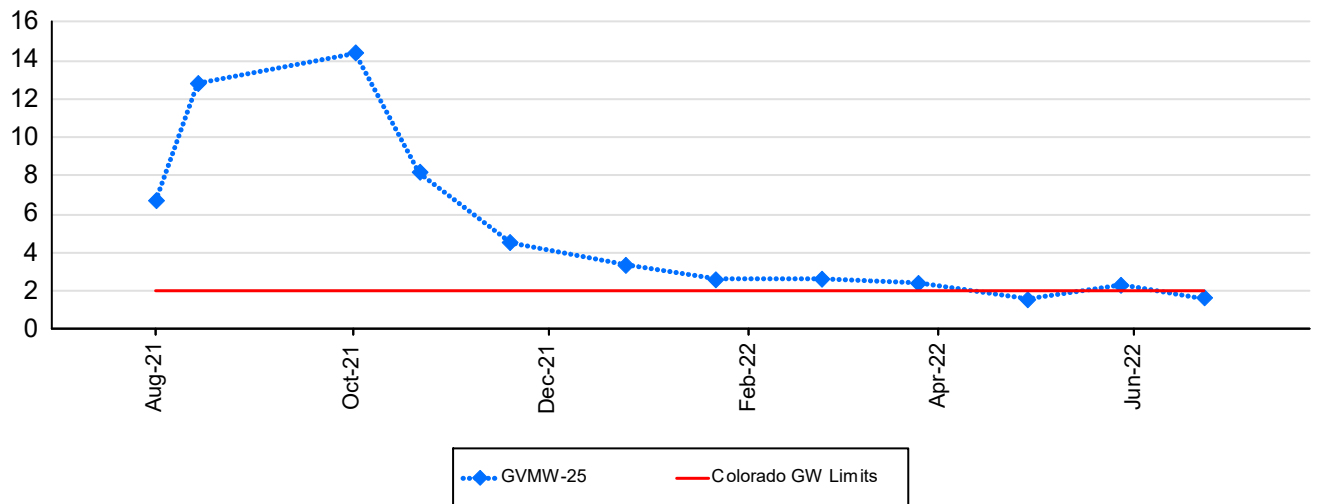
: Cyanide - WAD (mg/L)



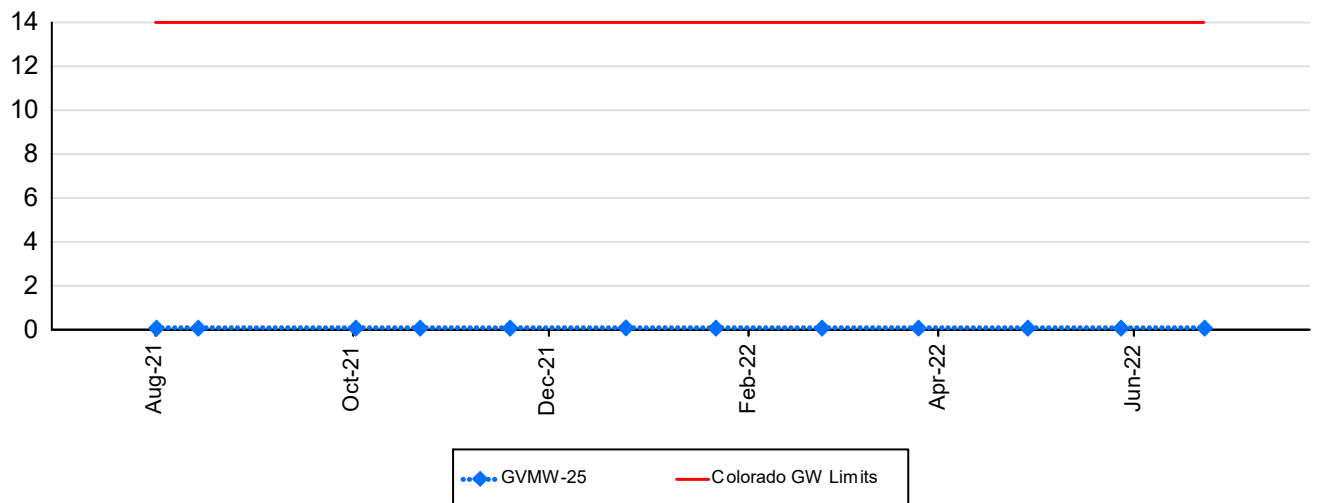
: Flow (gpm)



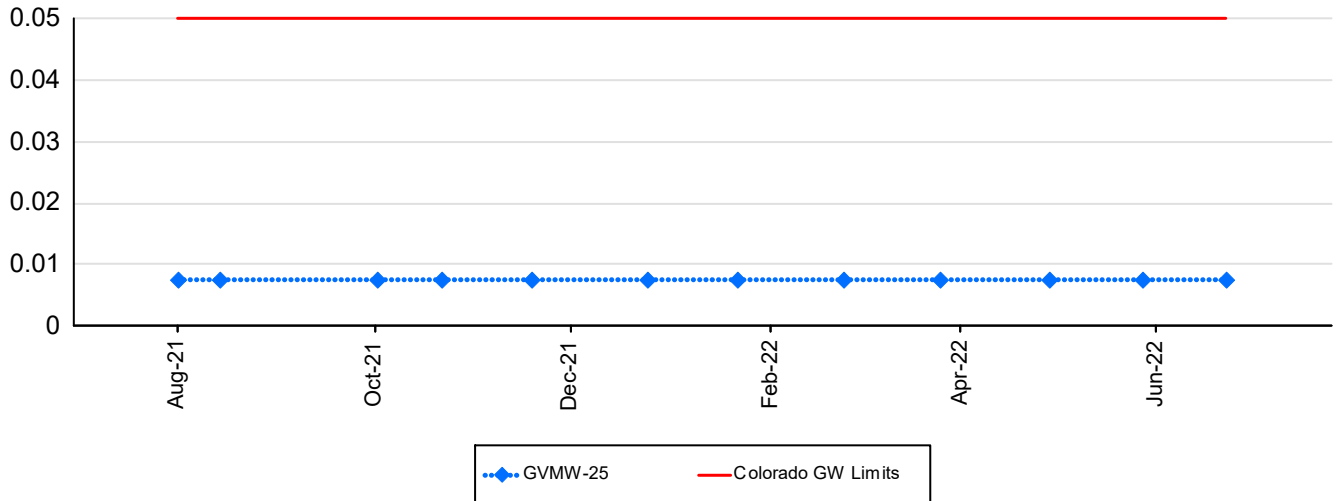
: Fluoride - Total F (mg/L)



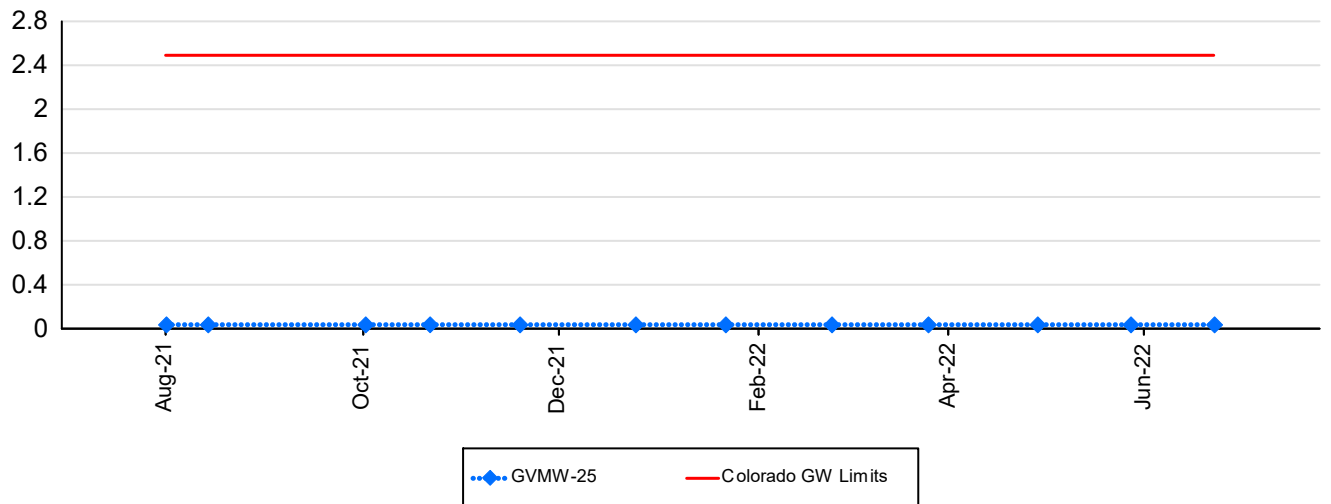
: Iron - Dissolved (mg/L)



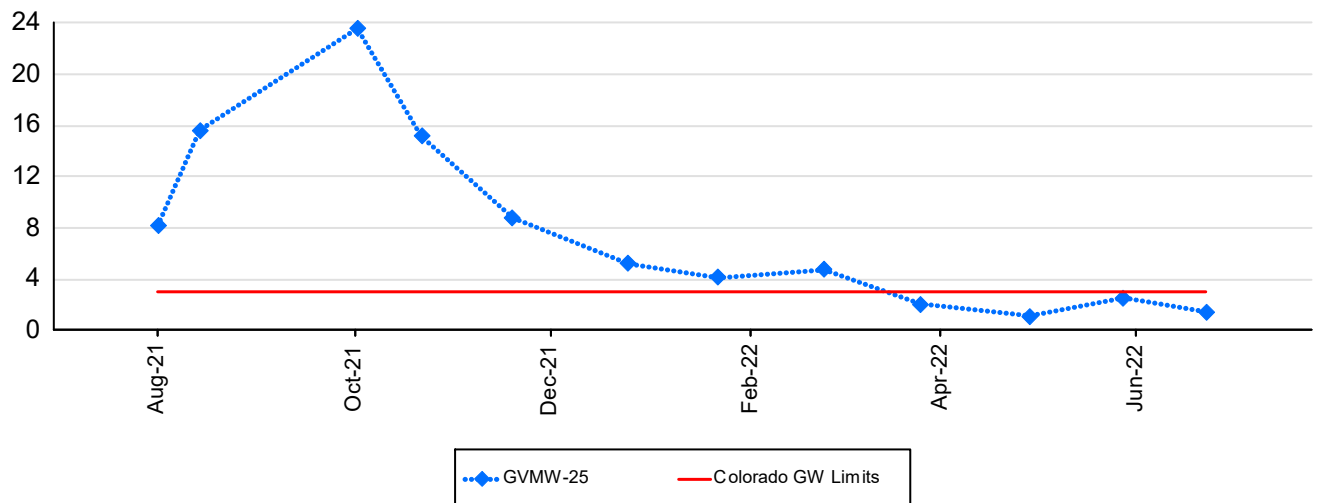
: Lead - Dissolved (mg/L)



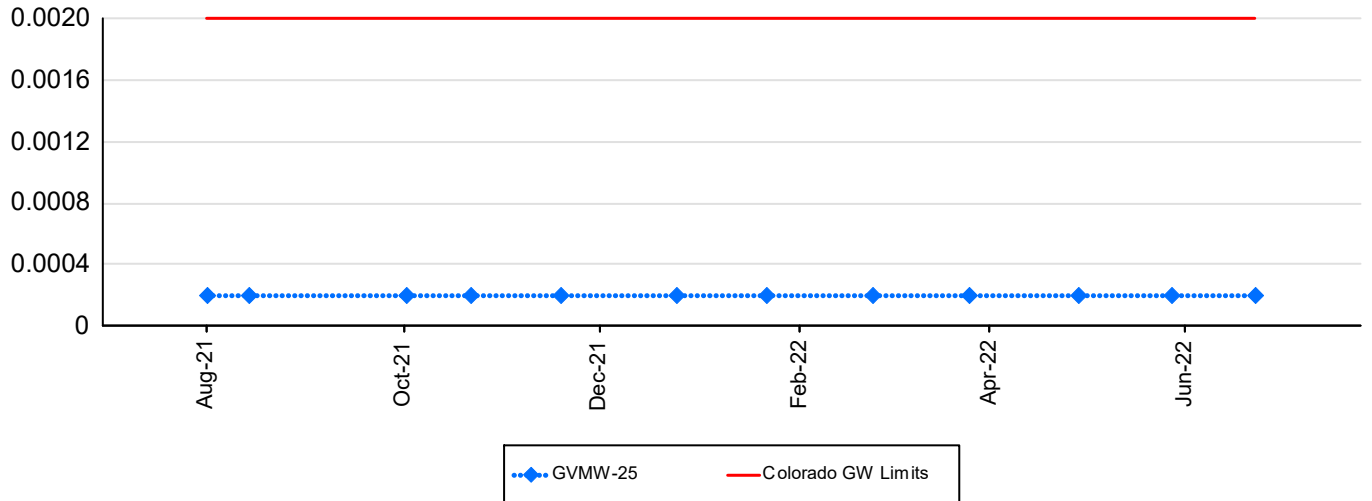
: Lithium - Dissolved (mg/L)



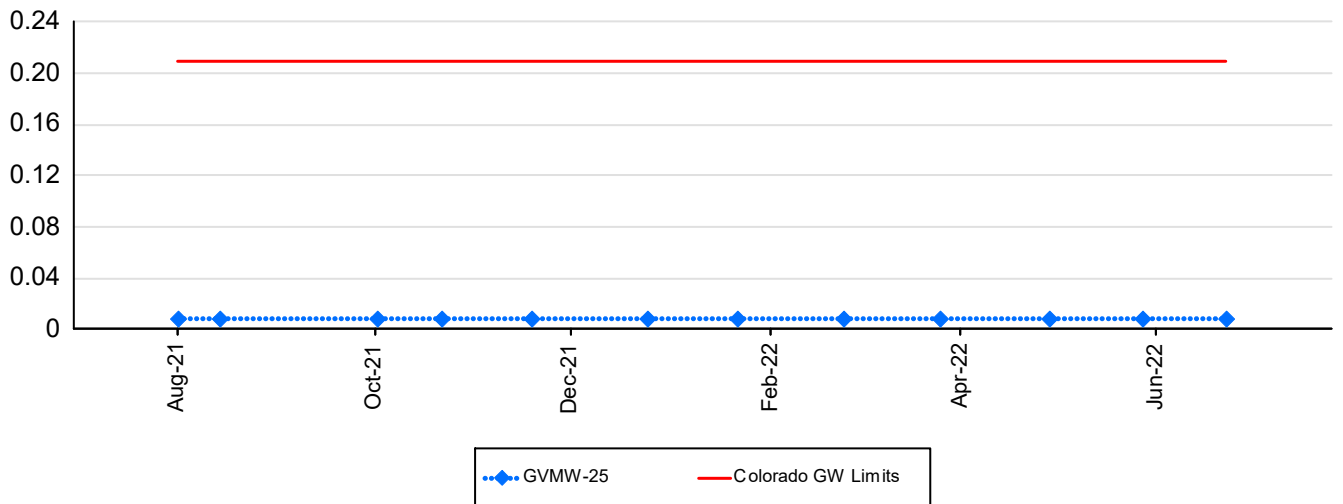
: Manganese - Dissolved (mg/L)



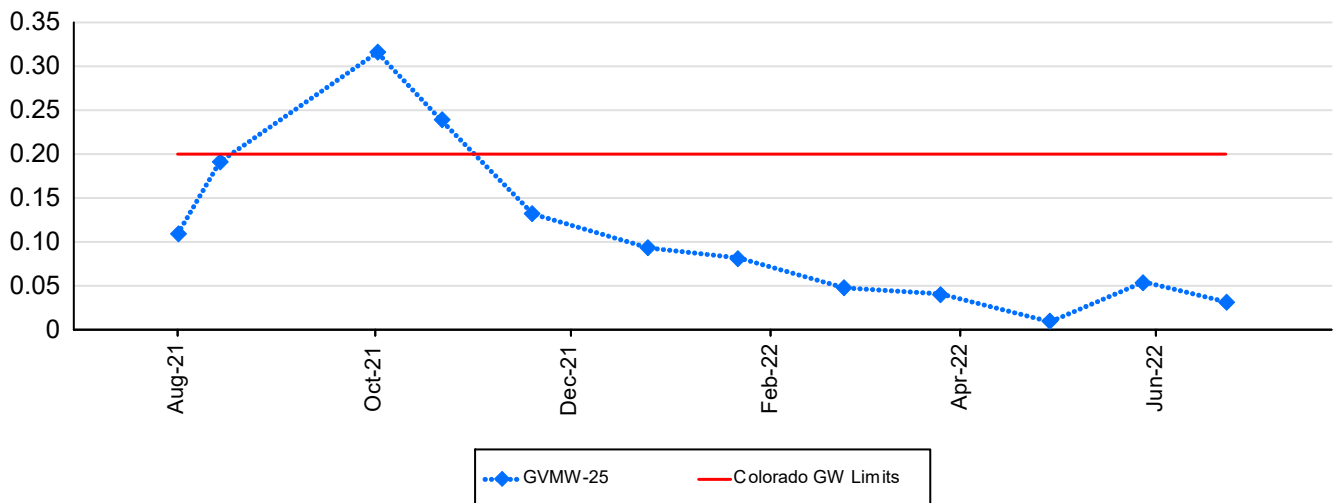
: Mercury - Dissolved (mg/L)



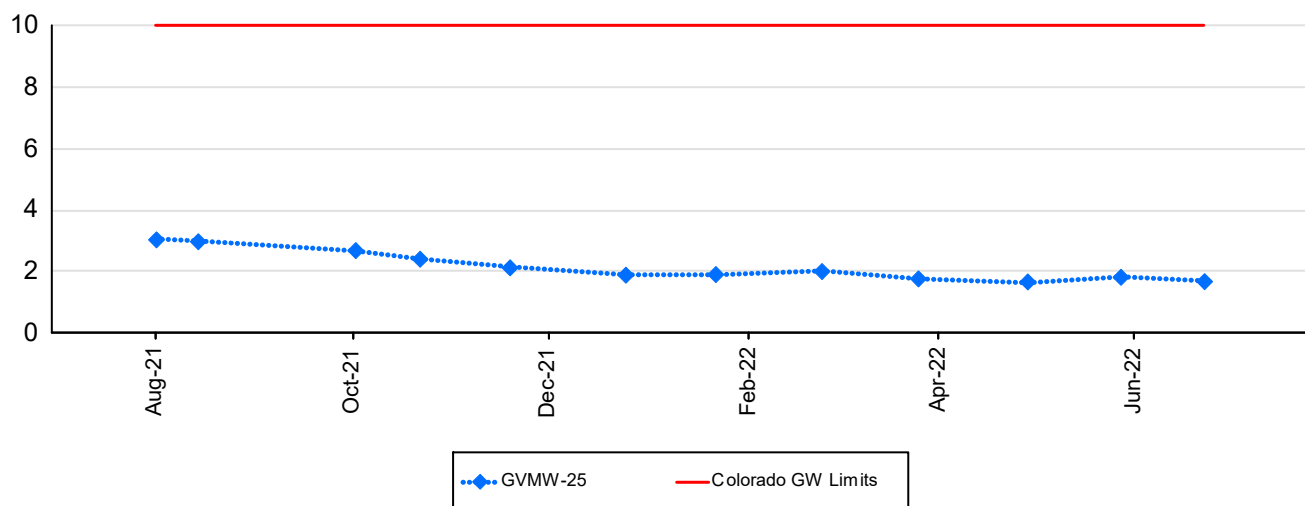
: Molybdenum - Dissolved (mg/L)



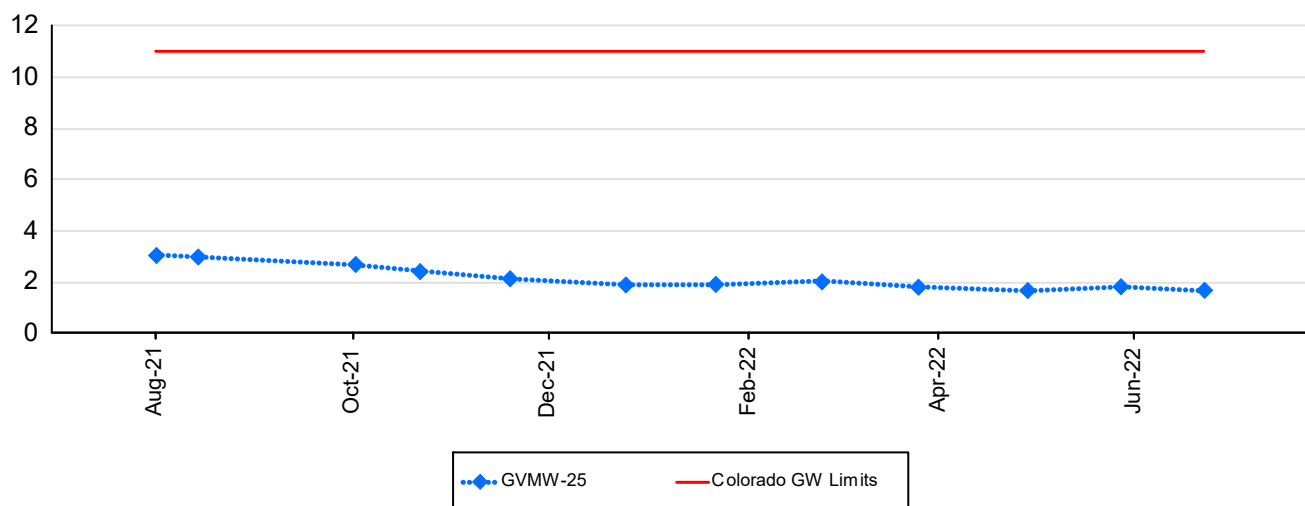
: Nickel - Dissolved (mg/L)



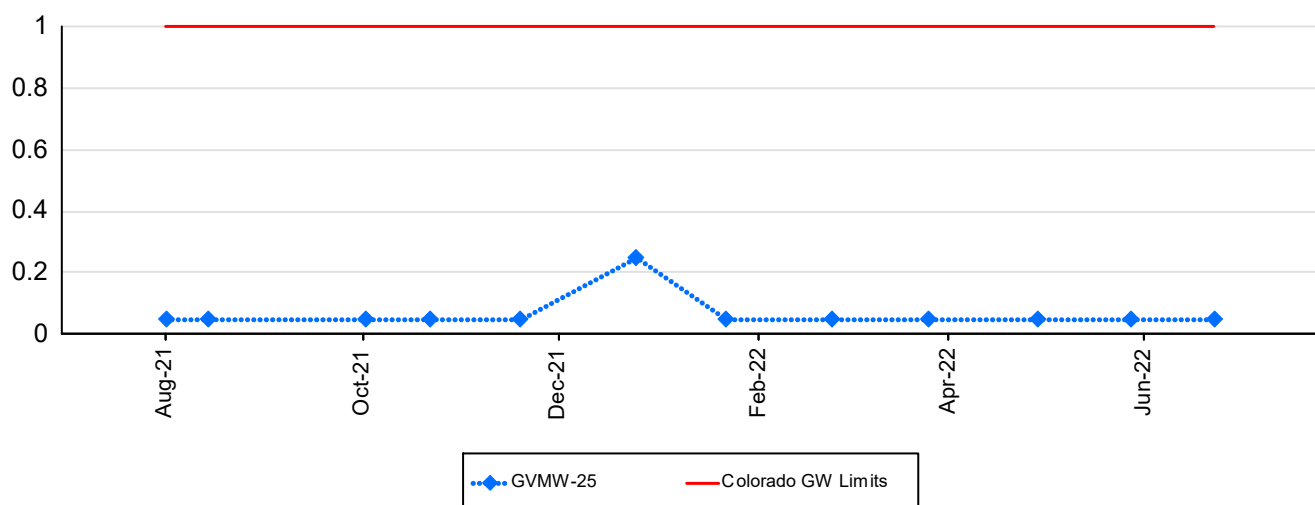
: Nitrate as Nitrogen (mg/L)



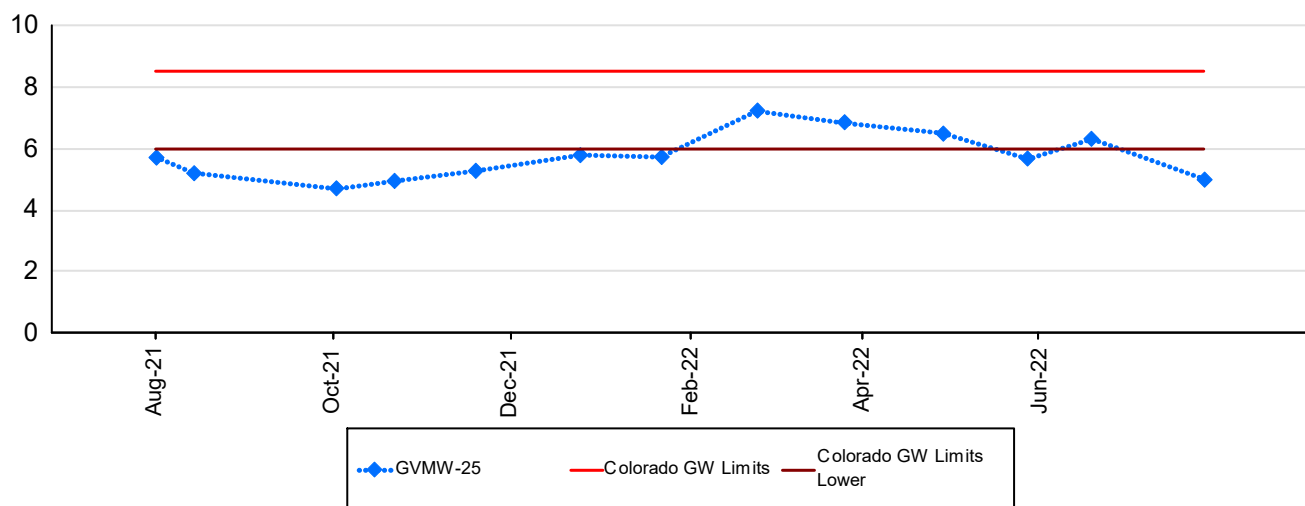
: Nitrite + Nitrate as Nitrogen (mg/L)



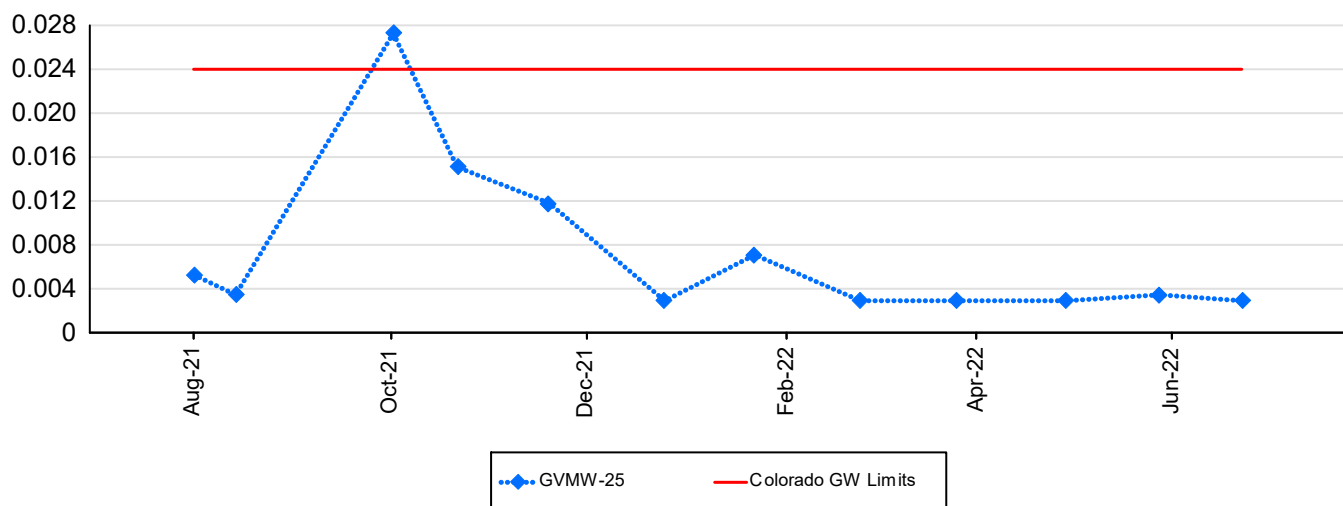
: Nitrite as Nitrogen (mg/L)



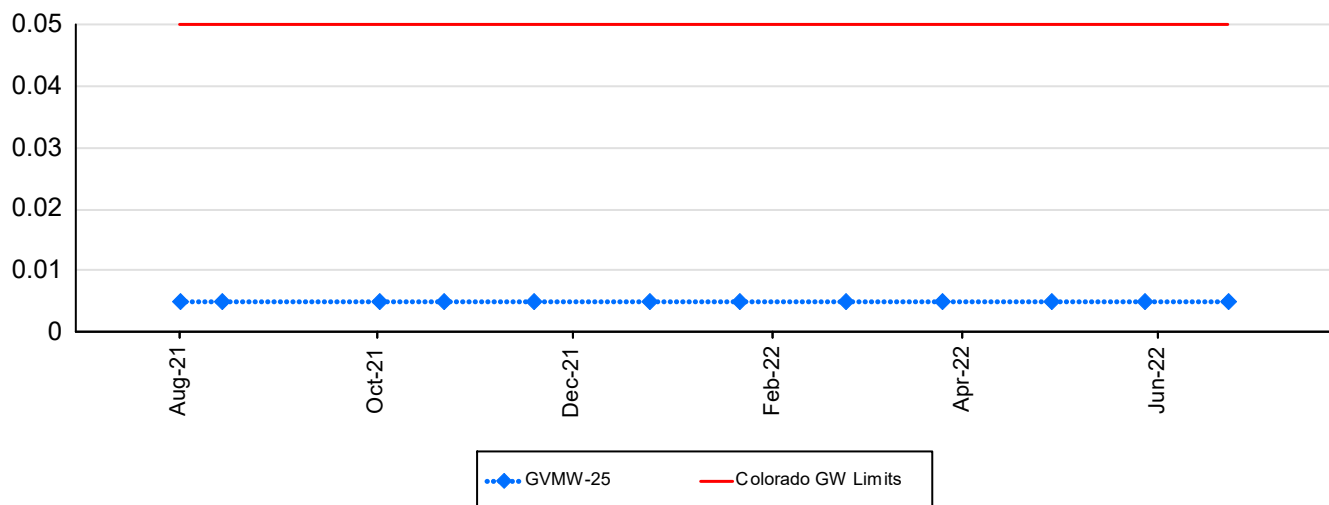
: pH Field (pH unit)



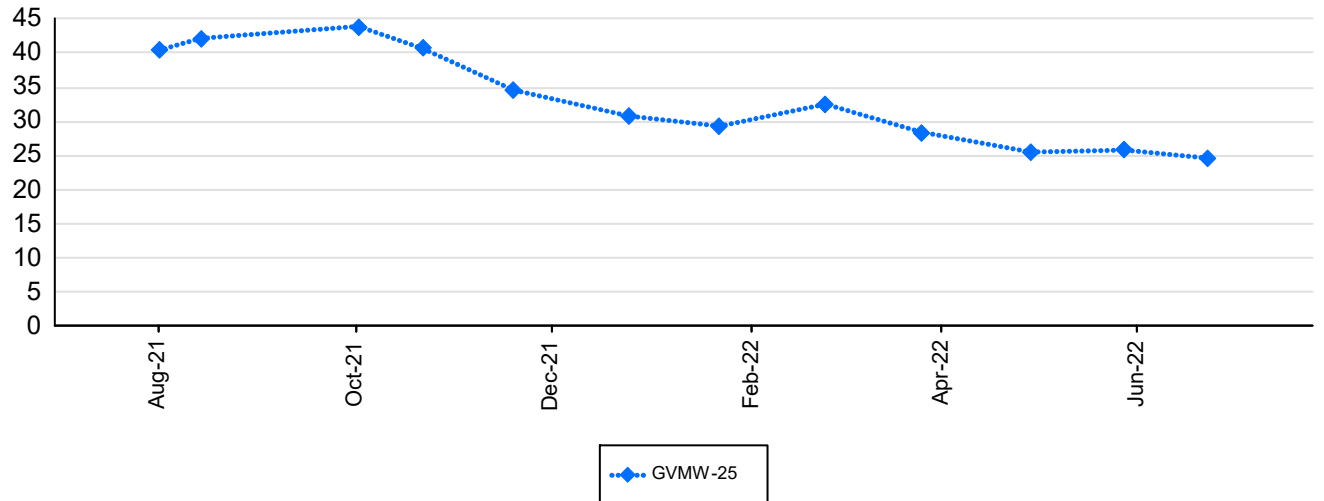
: Selenium - Dissolved (mg/L)



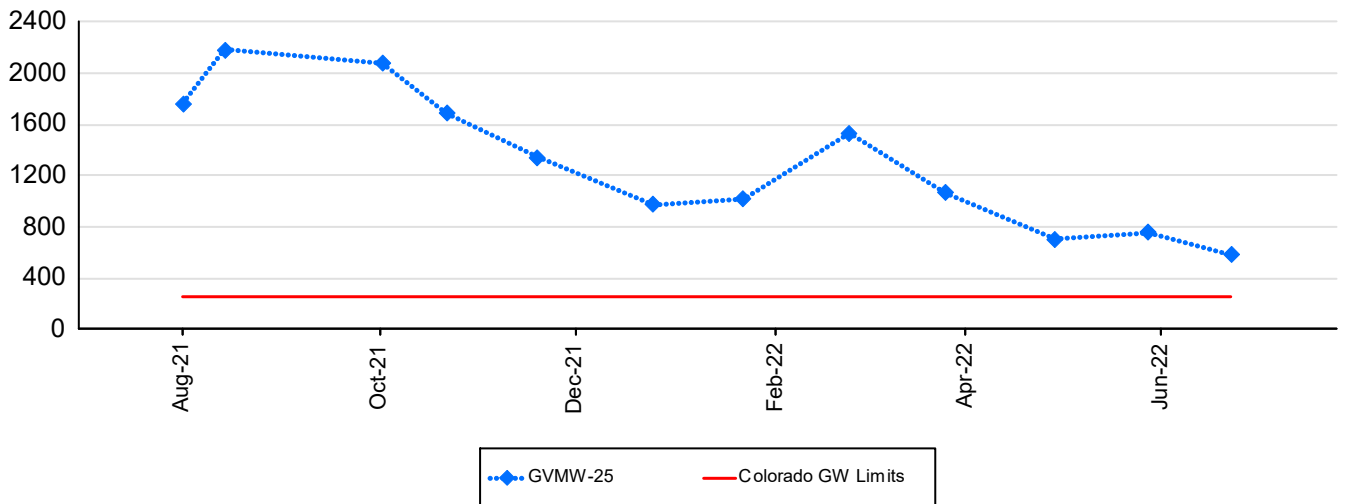
: Silver - Dissolved (mg/L)



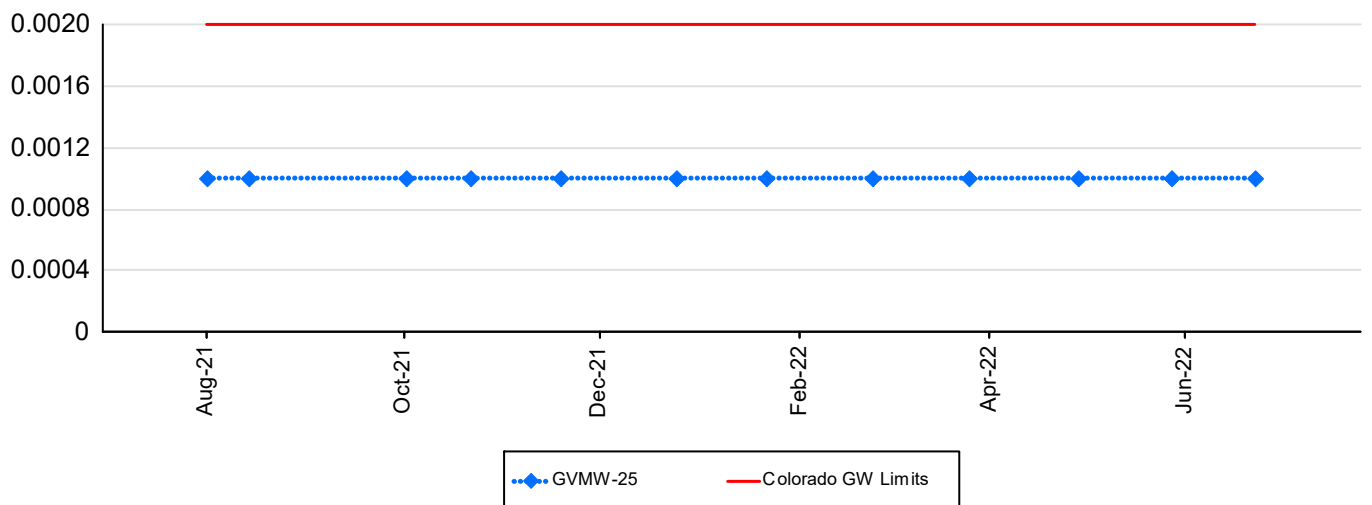
: Sodium - Dissolved (mg/L)



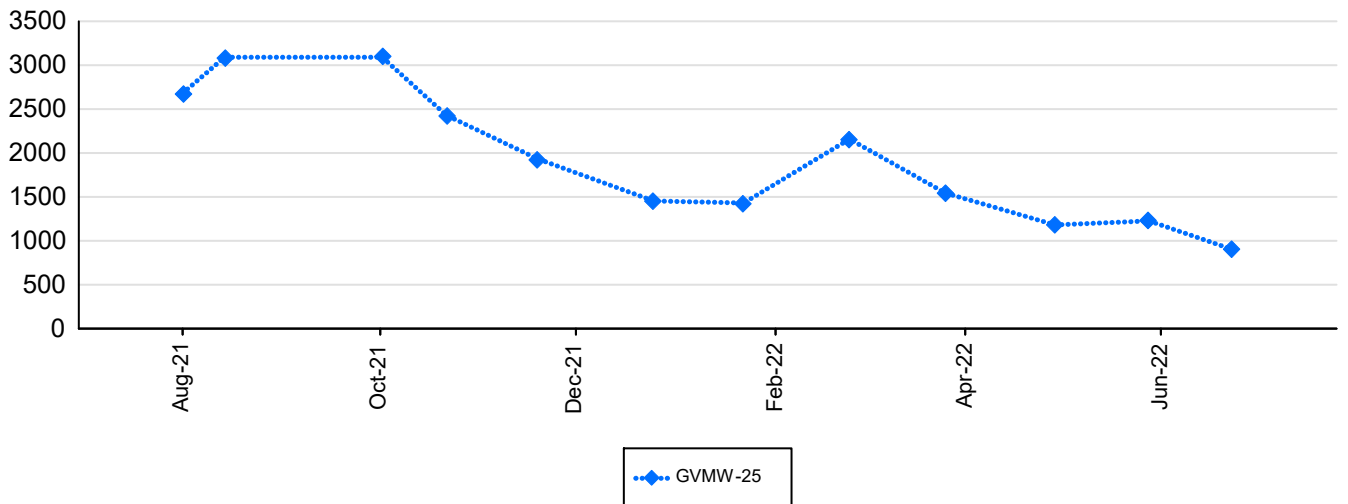
: Sulfate - Total (mg/L)



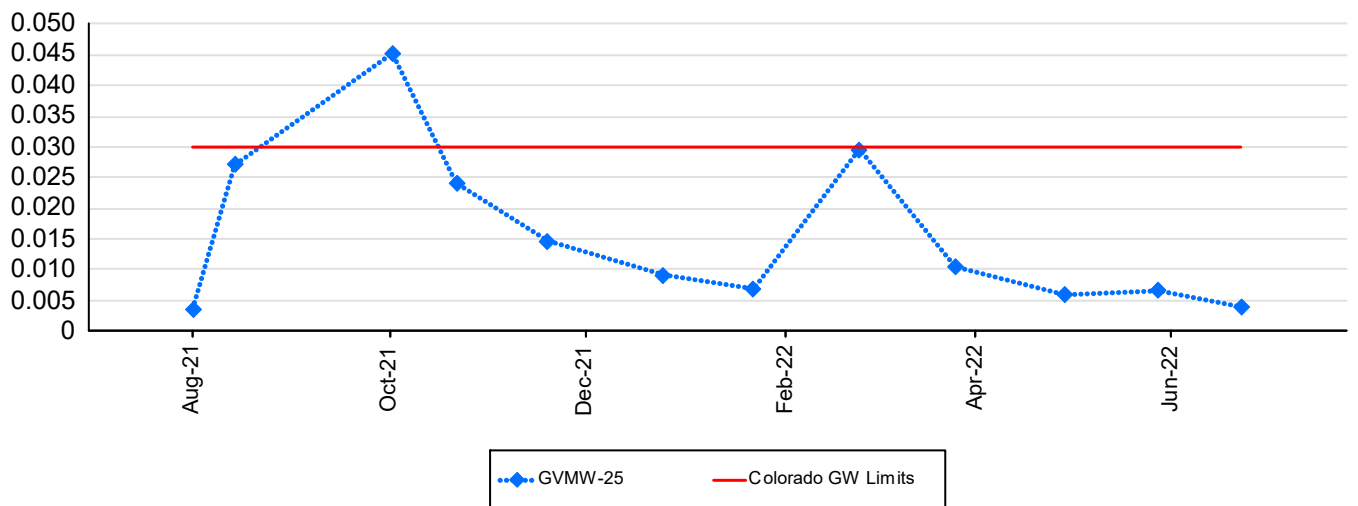
: Thallium - Dissolved (mg/L)



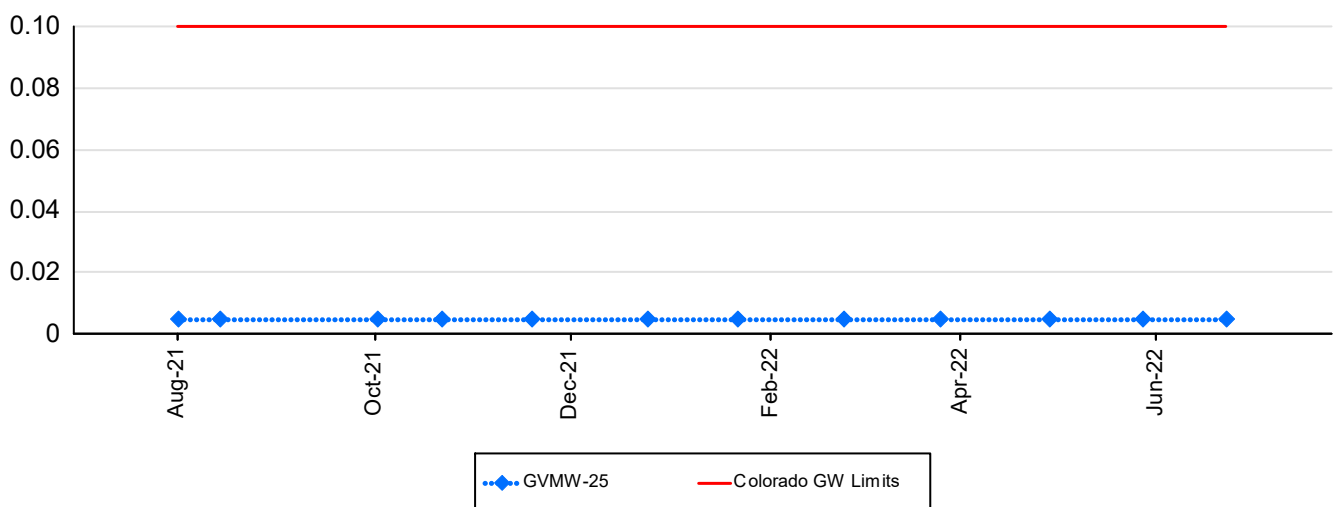
: Total Dissolved Solids (mg/L)



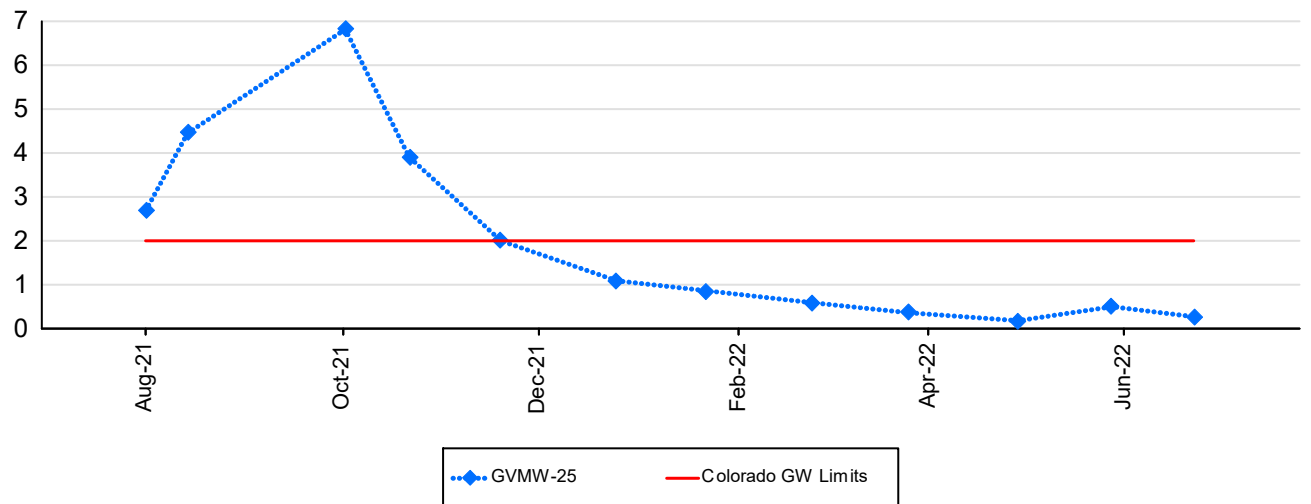
: Uranium - Dissolved (mg/L)



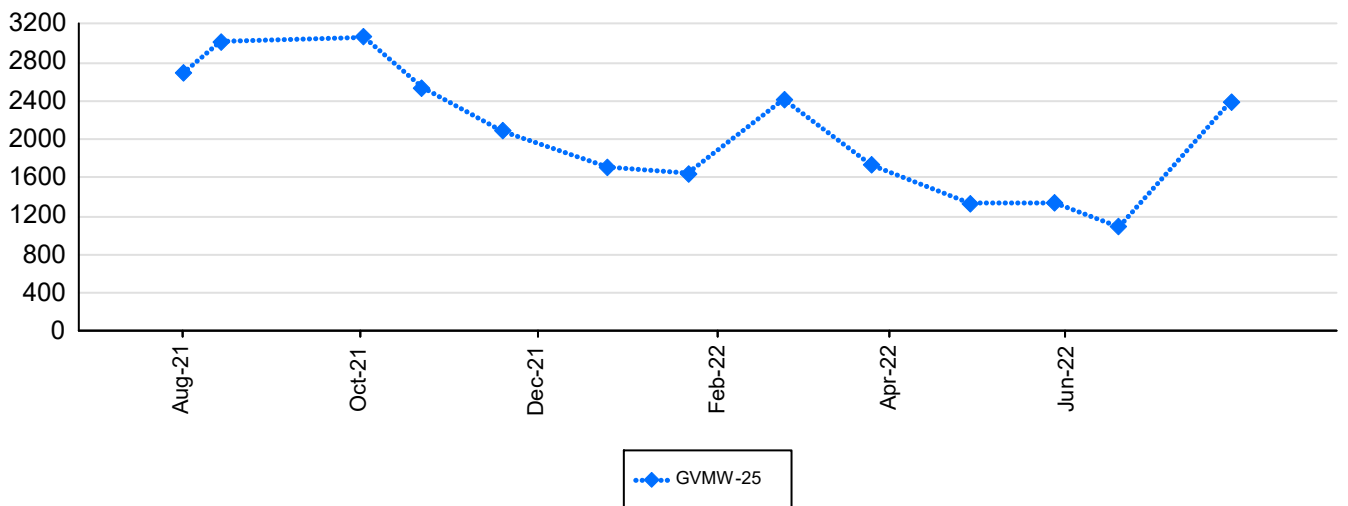
: Vanadium - Dissolved (mg/L)



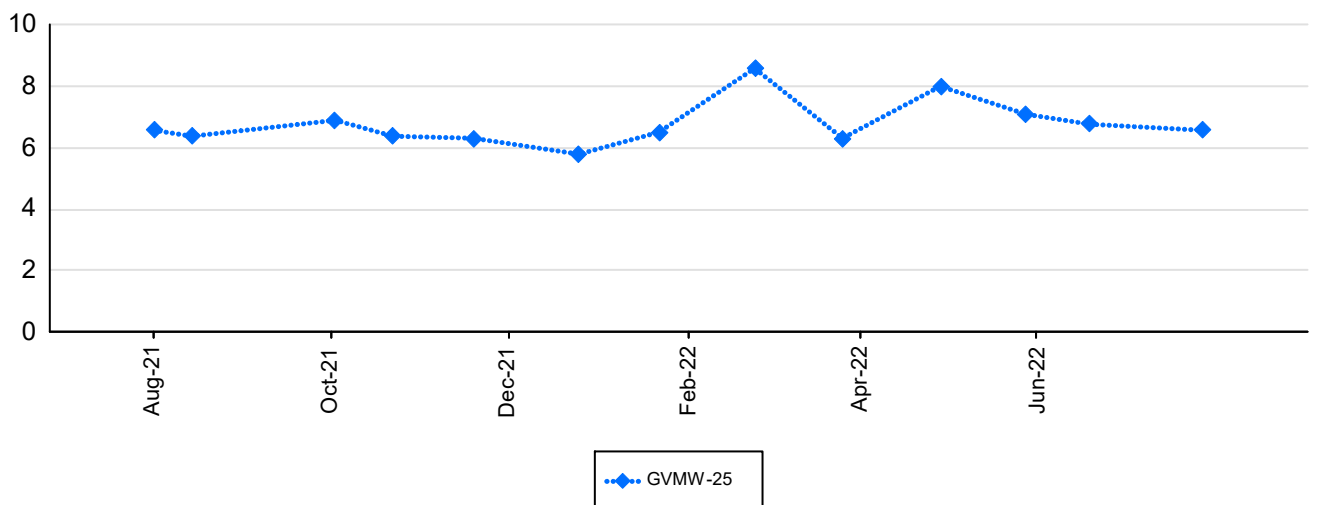
: Zinc - Dissolved (mg/L)



: Conductivity ($\mu\text{S}/\text{cm}$)



: Water Temperature ($^{\circ}\text{C}$)





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

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X2G0153**

Reported: 28-Jul-22 15:16

Client Sample ID: **GVMW-25**

Sampled: 11-Jul-22 13:55

Received: 12-Jul-22

Sampled By: BOD

SVL Sample ID: **X2G0153-02 (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	183	mg/L	0.100	0.035		X229109	AS	07/19/22 13:42	
EPA 200.7	Magnesium	43.2	mg/L	0.500	0.045		X229109	AS	07/19/22 13:42	
EPA 200.7	Potassium	4.02	mg/L	0.50	0.09		X229109	AS	07/19/22 13:42	
SM 2340 B	Hardness (as CaCO3)	634	mg/L	2.31	0.271		N/A		07/20/22 10:57	

Metals (Dissolved)

EPA 200.7	Aluminum	1.27	mg/L	0.080	0.054		X229110	AS	07/20/22 10:57	
EPA 200.7	Barium	0.0158	mg/L	0.0020	0.0019		X229110	AS	07/20/22 10:57	
EPA 200.7	Beryllium	0.00358	mg/L	0.00200	0.00080		X229110	AS	07/20/22 10:57	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X229110	AS	07/20/22 10:57	
EPA 200.7	Cadmium	0.0100	mg/L	0.0020	0.0016		X229110	AS	07/20/22 10:57	
EPA 200.7	Calcium	162	mg/L	0.100	0.069		X229110	AS	07/20/22 10:57	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X229110	AS	07/20/22 10:57	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X229110	AS	07/20/22 10:57	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X229110	AS	07/20/22 10:57	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X229110	AS	07/20/22 10:57	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X229110	AS	07/20/22 10:57	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X229110	AS	07/20/22 10:57	
EPA 200.7	Magnesium	38.9	mg/L	0.500	0.090		X229110	AS	07/20/22 10:57	
EPA 200.7	Manganese	1.41	mg/L	0.0080	0.0034		X229110	AS	07/20/22 10:57	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X229110	AS	07/20/22 10:57	
EPA 200.7	Nickel	0.0320	mg/L	0.0100	0.0048		X229110	AS	07/20/22 10:57	
EPA 200.7	Potassium	4.21	mg/L	0.50	0.18		X229110	AS	07/20/22 10:57	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X229110	AS	07/20/22 10:57	
EPA 200.7	Sodium	24.6	mg/L	0.50	0.12		X229110	AS	07/20/22 10:57	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X229110	AS	07/20/22 09:53	
EPA 200.7	Zinc	0.277	mg/L	0.0100	0.0054		X229110	AS	07/20/22 10:57	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X229107	KAH	07/19/22 17:05	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X229107	KAH	07/19/22 17:05	
EPA 200.8	Selenium	< 0.00300	mg/L	0.00300	0.00024		X229107	KAH	07/19/22 17:05	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X229107	KAH	07/19/22 17:05	
EPA 200.8	Uranium	0.00396	mg/L	0.00100	0.000052		X229107	KAH	07/20/22 14:15	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X231122	KAH	07/28/22 10:45	N1
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X231122	KAH	07/28/22 10:47	N1



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(208) 784-1258

www.svl.net

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

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X2G0153**

Reported: 28-Jul-22 15:16

Client Sample ID: **GVMW-25**SVL Sample ID: **X2G0153-02 (Ground Water)****Sample Report Page 2 of 2**

Sampled: 11-Jul-22 13:55

Received: 12-Jul-22

Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @19.0°C	< 0.0050	mg/L	0.0050	0.0048		X229097	HJL	07/14/22 11:22	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X230013	KJR	07/21/22 18:06	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X229218	KJR	07/15/22 19:36	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X229101	HJL	07/14/22 12:49	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X230008	MWD	07/18/22 10:55	
SM 2320 B	Total Alkalinity	16.0	mg/L as CaCO3	1.0			X229135	TJL	07/14/22 15:24	
SM 2320 B	Bicarbonate	16.0	mg/L as CaCO3	1.0			X229135	TJL	07/14/22 15:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X229135	TJL	07/14/22 15:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X229135	TJL	07/14/22 15:24	
SM 2540 C	Total Diss. Solids	912	mg/L	10			X229098	TJL	07/13/22 14:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X229099	TJL	07/13/22 14:15	
SM 4500 H B	pH @22.2°C	6.0	pH Units				X229135	TJL	07/14/22 15:24	H5

Anions by Ion Chromatography

EPA 300.0	Chloride	12.3	mg/L	10.0	1.10	50	X229095	EBR	07/12/22 20:29	D2
EPA 300.0	Fluoride	1.64	mg/L	0.100	0.017		X229095	EBR	07/12/22 20:11	
EPA 300.0	Nitrate as N	1.68	mg/L	0.050	0.013		X229095	EBR	07/12/22 20:11	
EPA 300.0	Nitrate+Nitrite as N	1.68	mg/L	0.100	0.044		X229095	EBR	07/12/22 20:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X229095	EBR	07/12/22 20:11	
EPA 300.0	Sulfate as SO4	585	mg/L	15.0	9.00	50	X229095	EBR	07/12/22 20:29	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 12.7 meq/L Anion Sum: 13.1 meq/L C/A Balance: -1.50 % Calculated TDS: 858 TDS/cTDS: 1.06

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

Herman J. Haring
Project Manager