

STATE OF
COLORADO

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

Monthly Grassy Update

Ronald Parratt <Ronald.Parratt@newmont.com>

Thu, Dec 15, 2022 at 11:47 AM

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

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

Good Morning Mrs. Eschberger,

Please see the attached graphs and analytical report for Grassy Valley monitoring well GVMW-25 for the month of November, 2022. During sample collection the surface water monitoring location GV-06, and Seep 1 & Seep 2 monitoring locations were frozen. If you have any questions please reach out via email at ronald.parratt@newmont.com or phone at 719.851.4019.

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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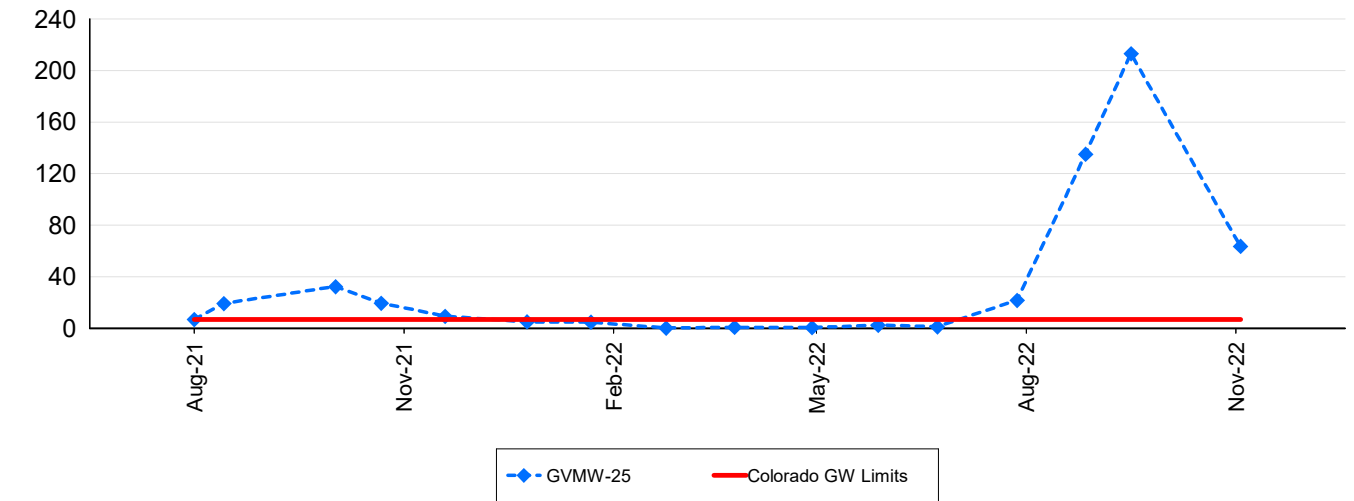
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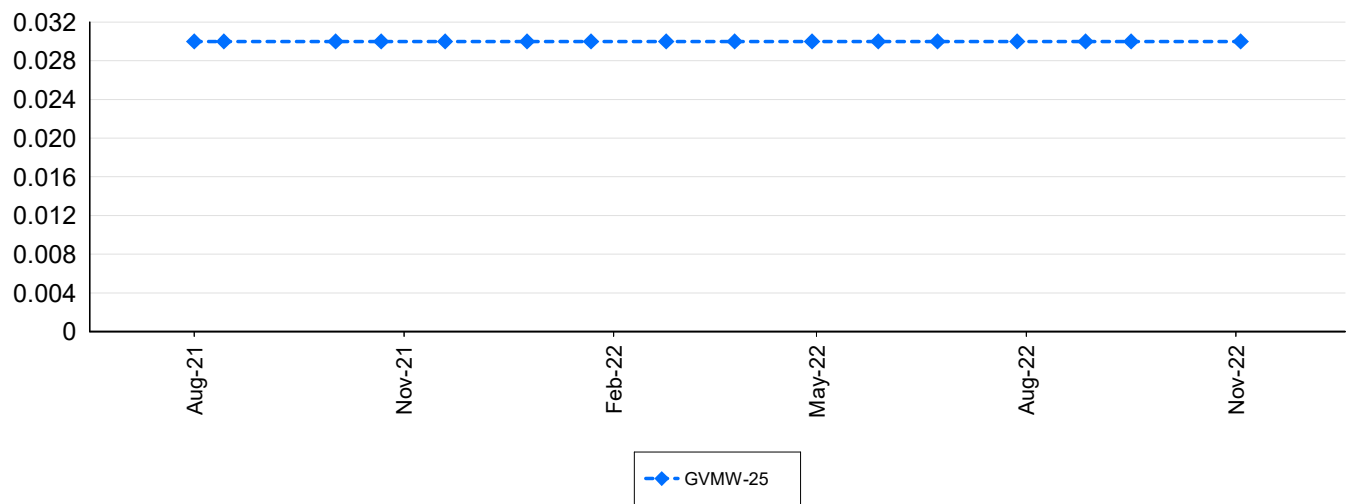
Monthly Grassy November 2022.pdf

14657K

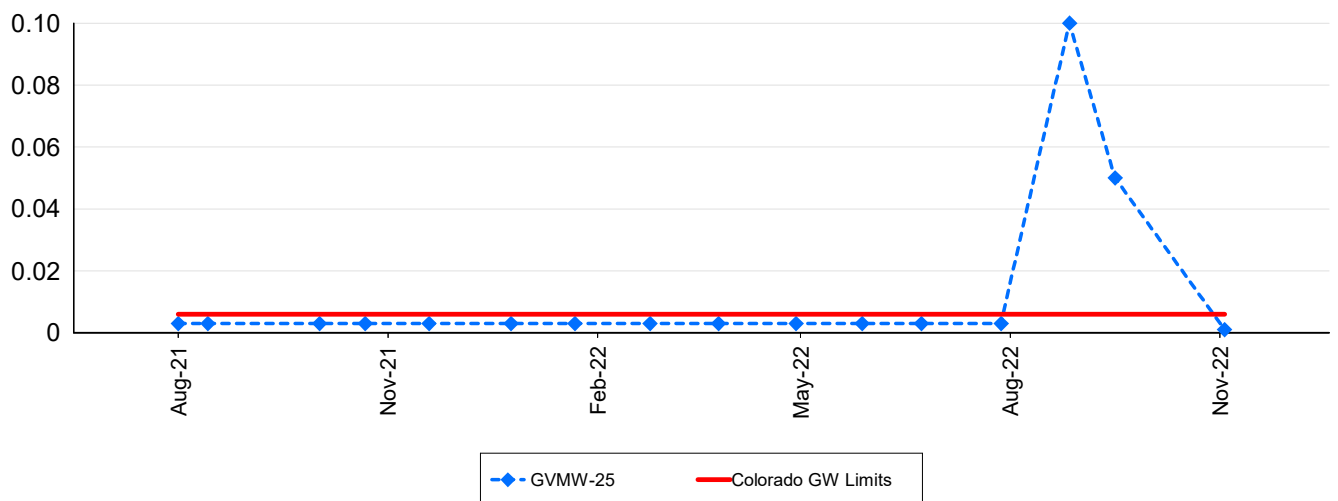
: Aluminium - Dissolved (mg/L)



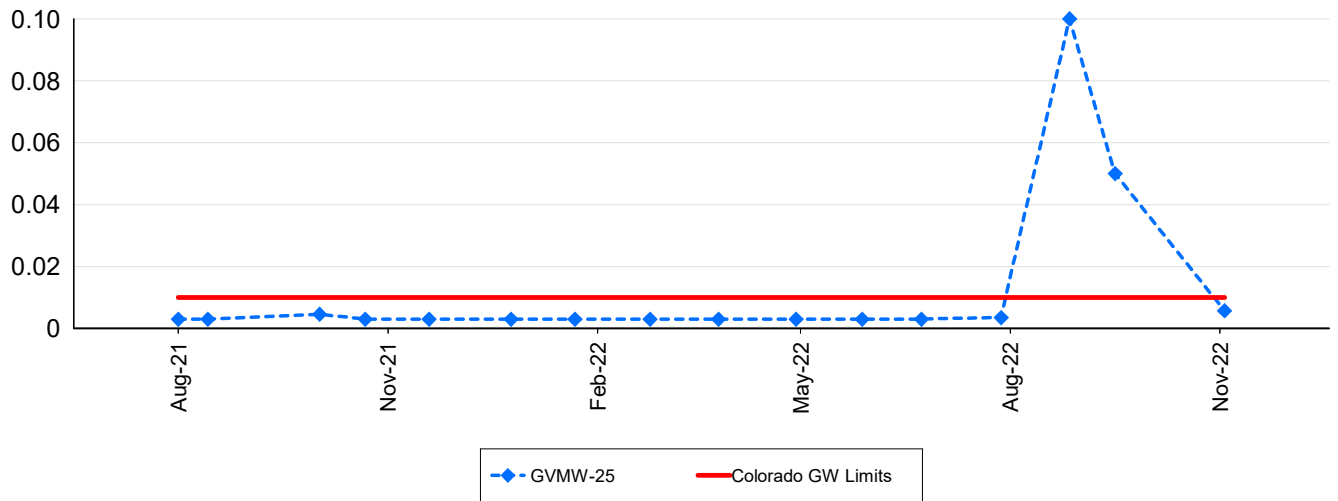
: Ammonia (mg/L)



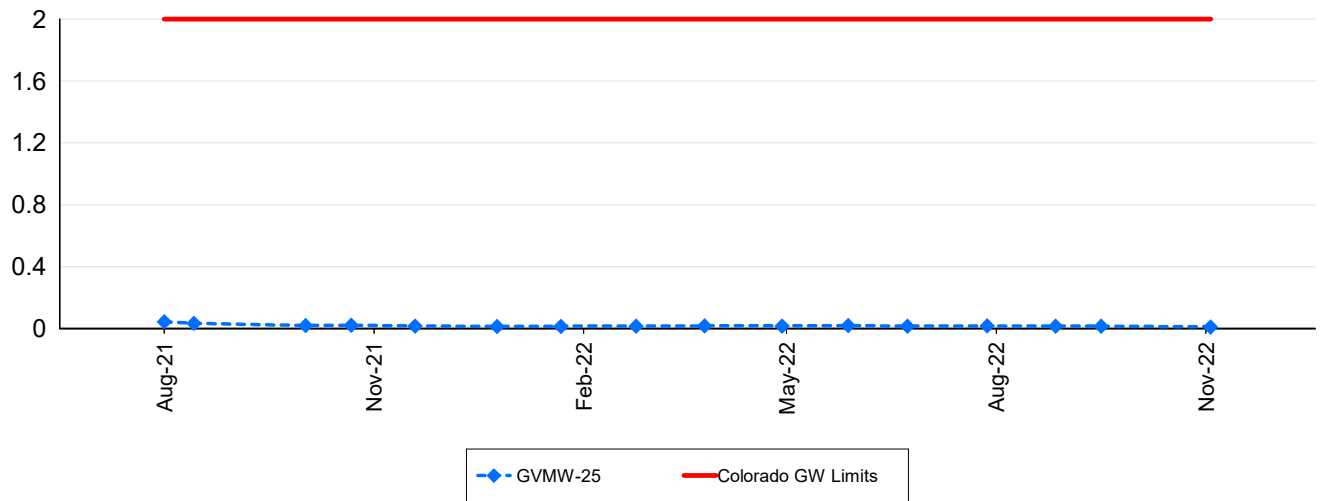
: Antimony - Dissolved (mg/L)



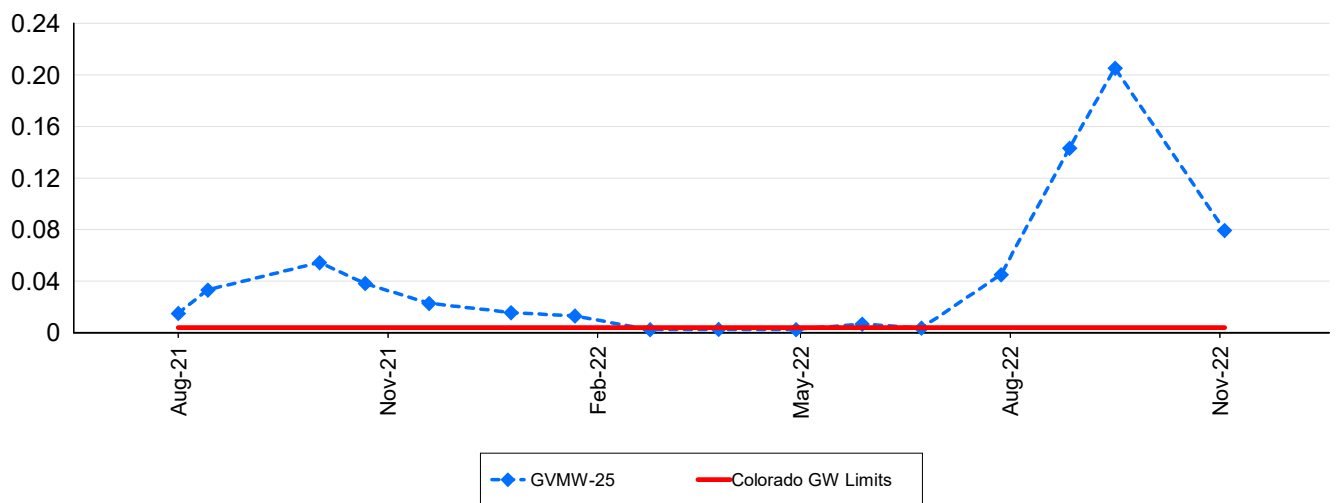
: Arsenic - Dissolved (mg/L)



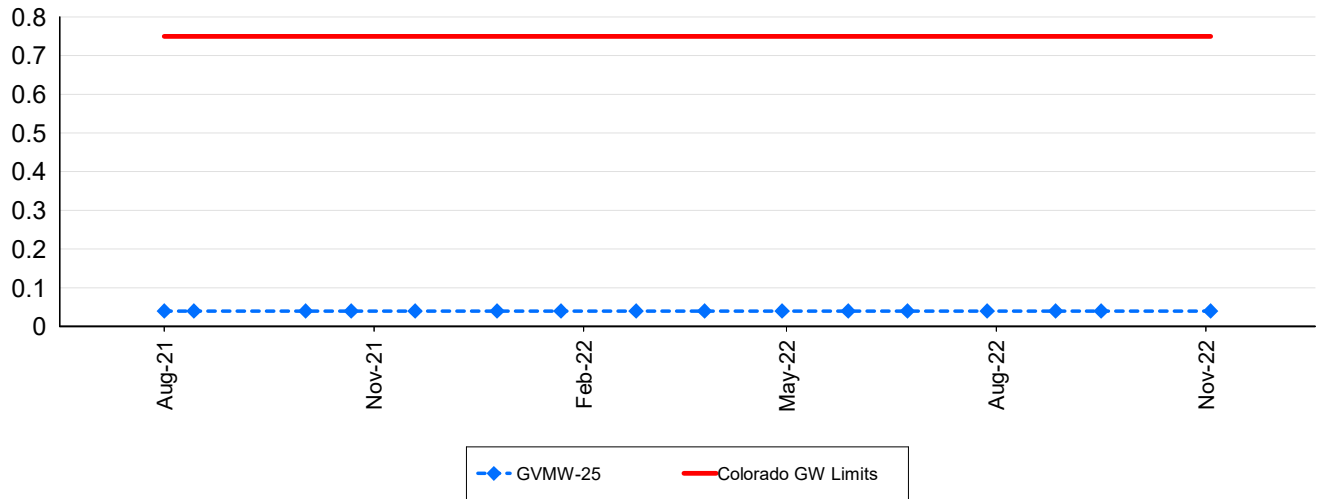
: Barium - Dissolved (mg/L)



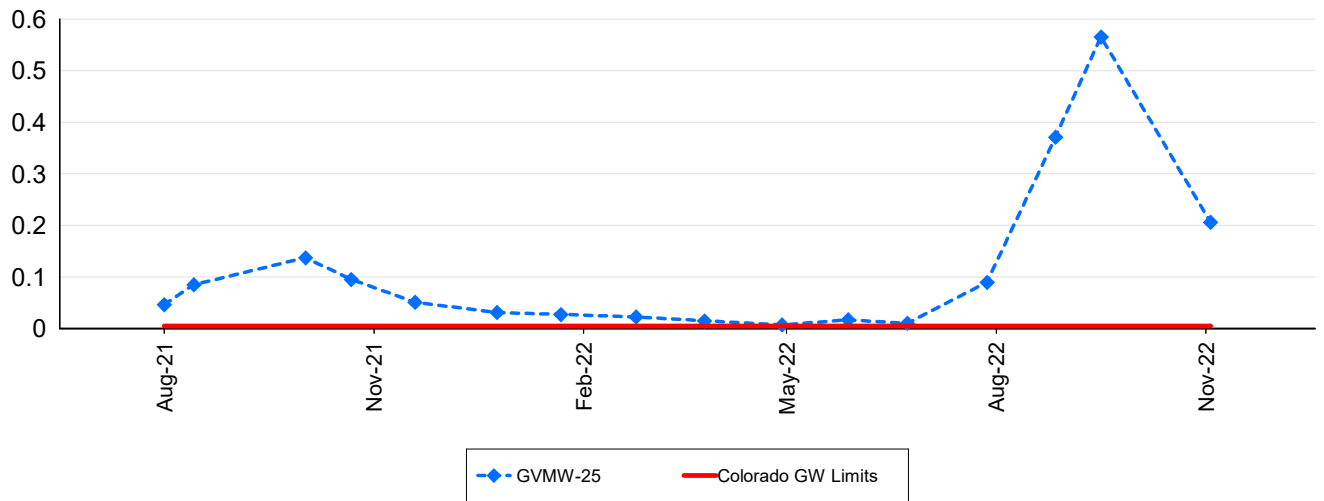
: Beryllium - Dissolved (mg/L)



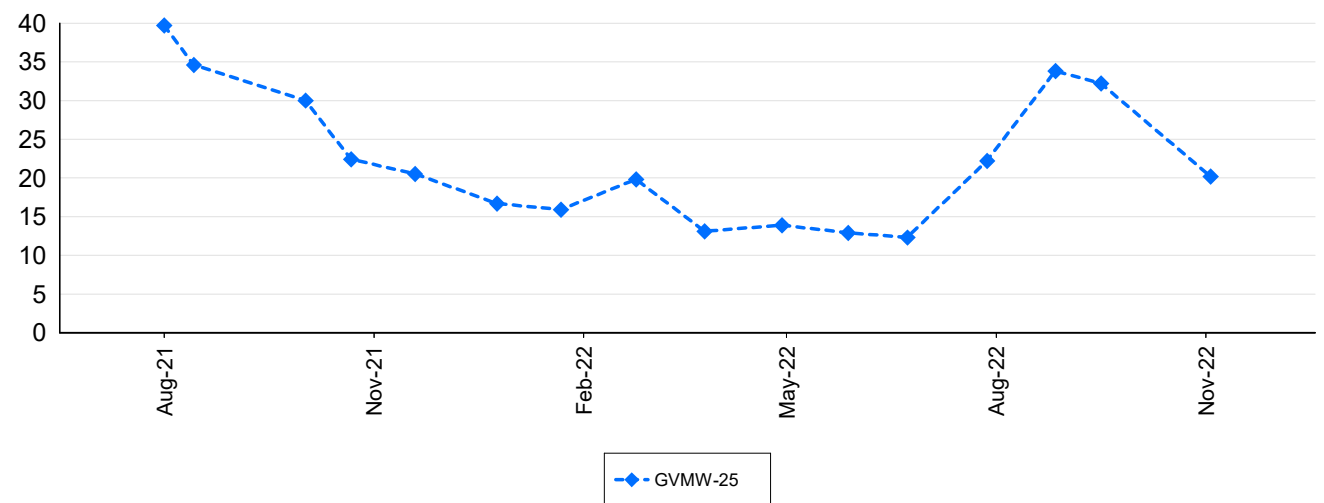
: Boron - Dissolved (mg/L)



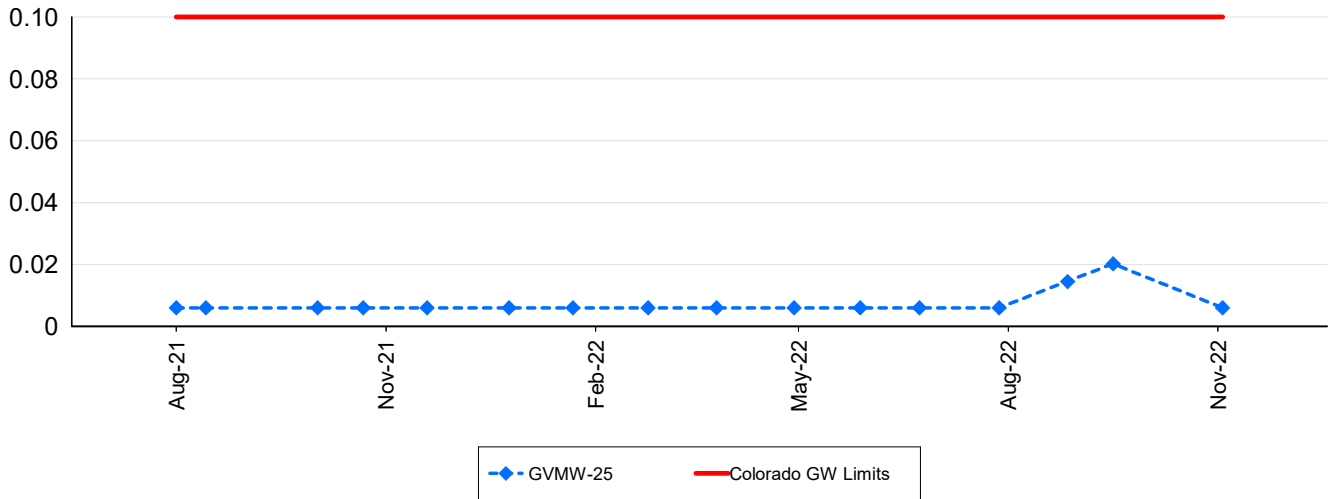
: Cadmium - Dissolved (mg/L)



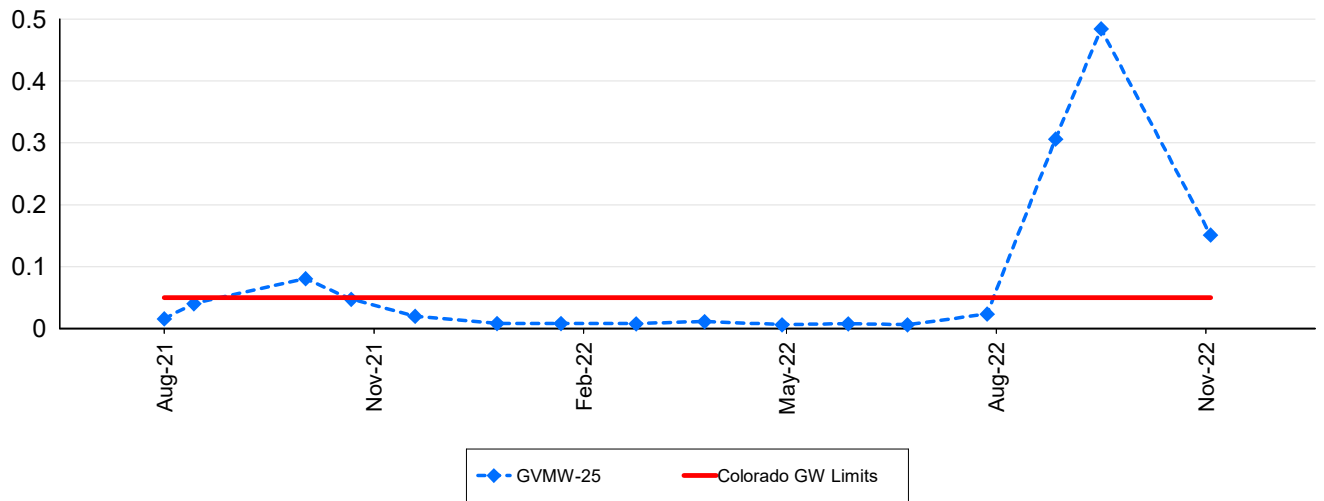
: Chloride - Total (mg/L)



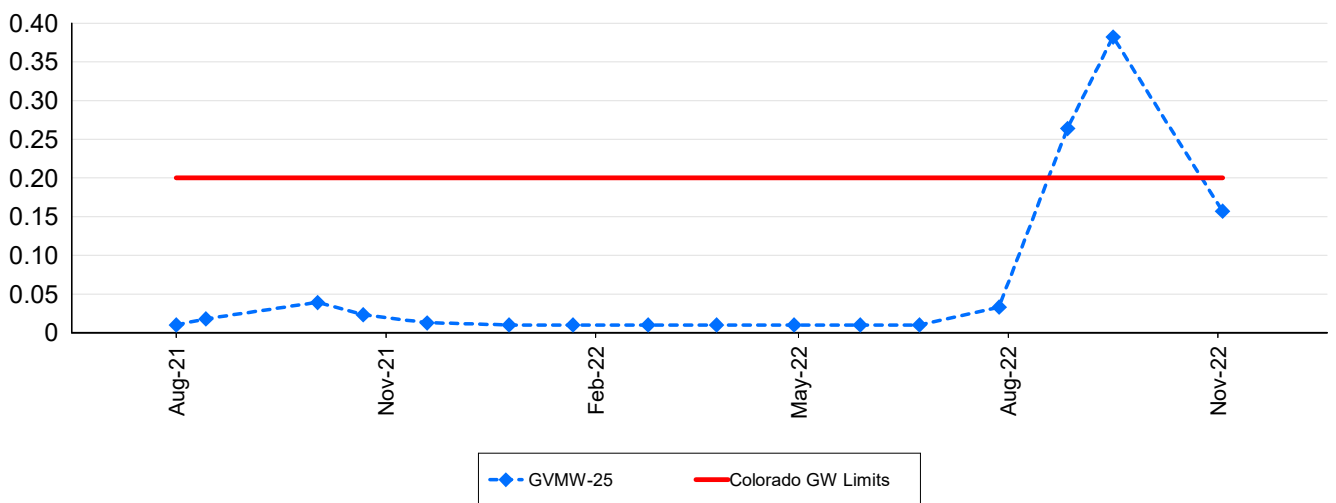
: Chromium - Dissolved (mg/L)



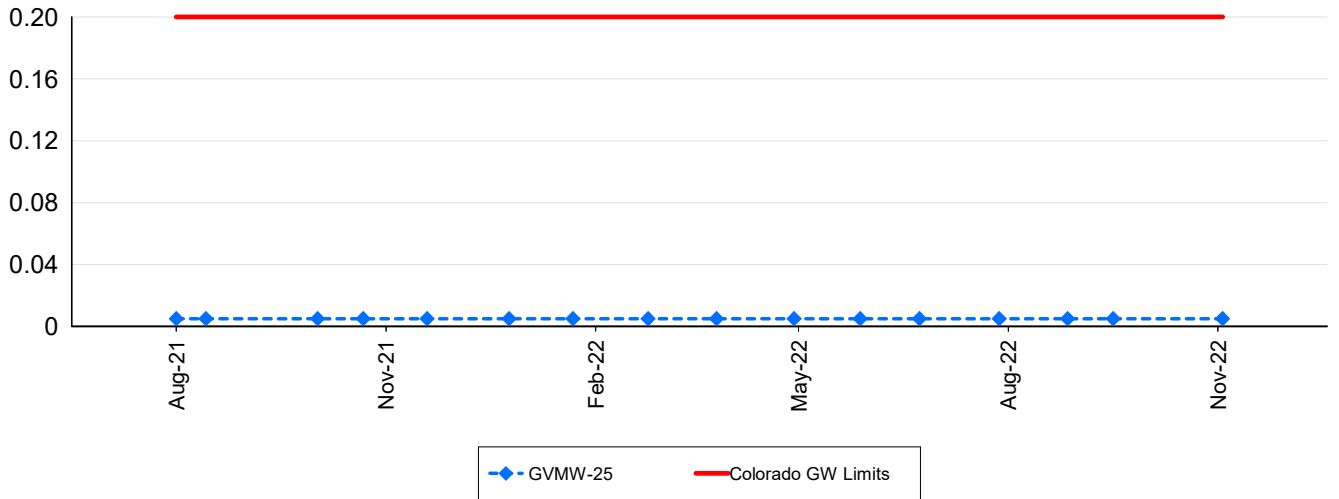
: Cobalt - Dissolved (mg/L)



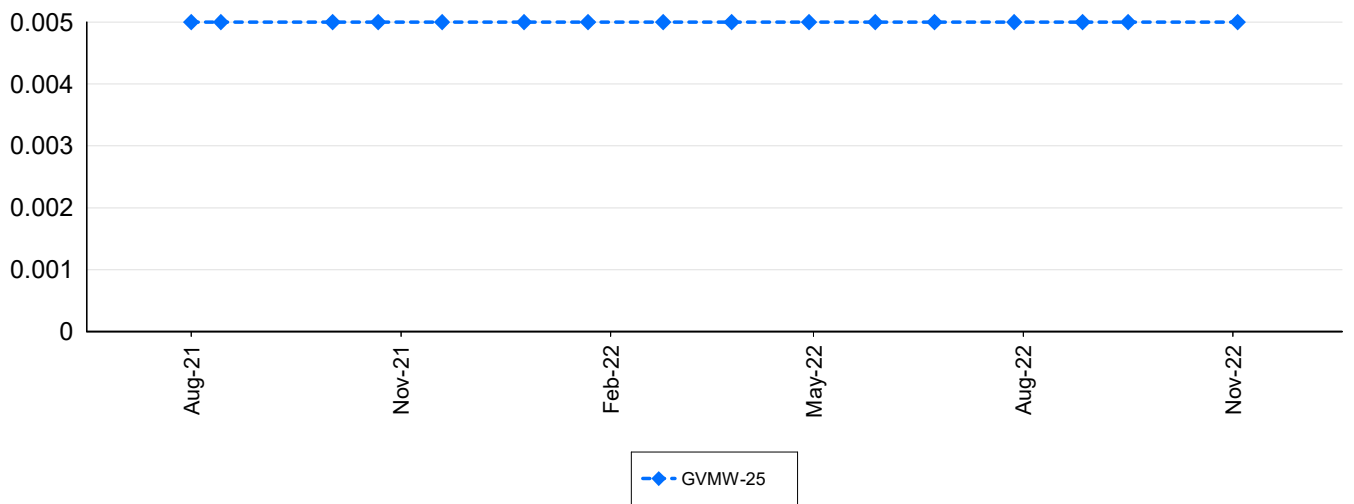
: Copper - Dissolved (mg/L)



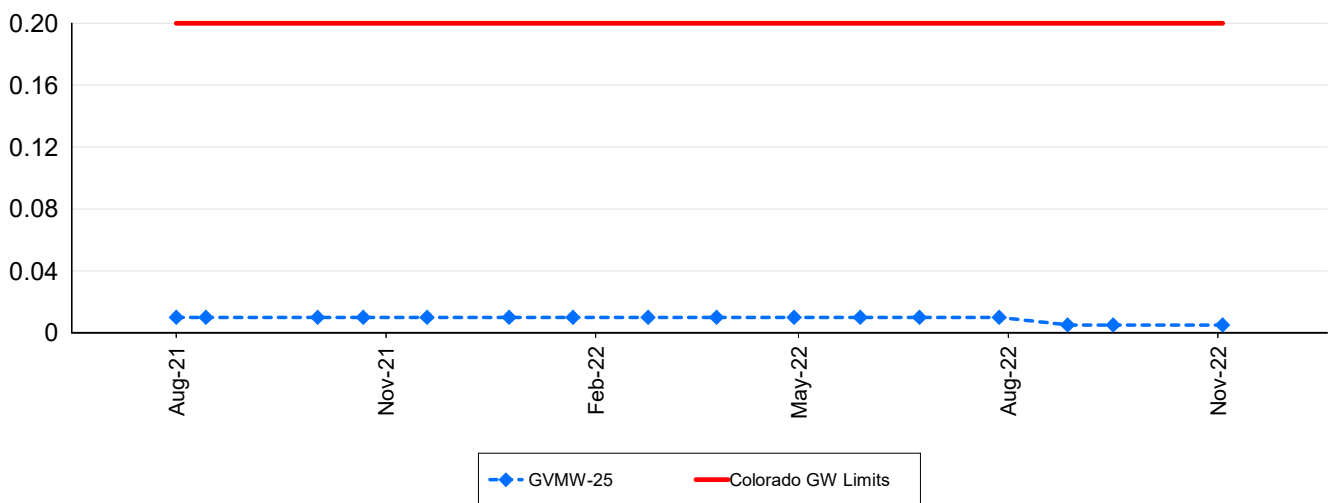
: Cyanide - Free (mg/L)



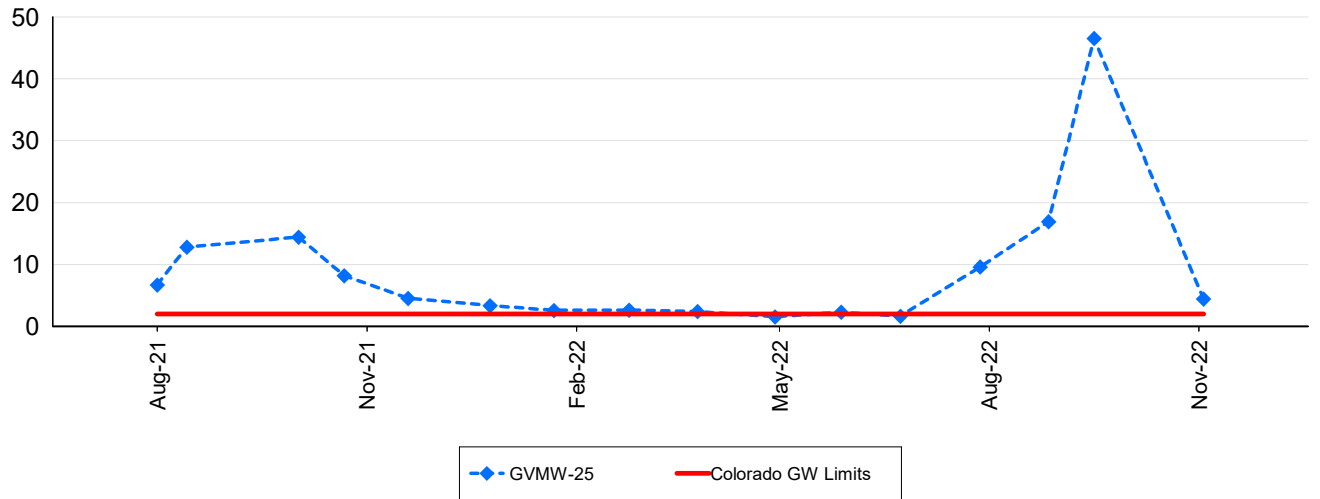
: Cyanide - Total (mg/L)



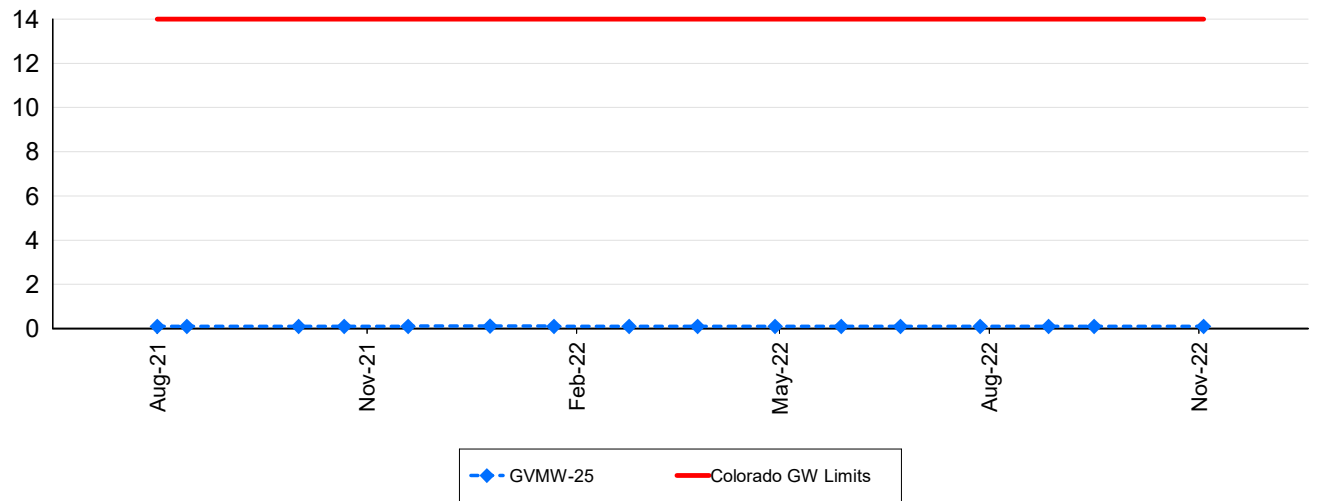
: Cyanide - WAD (mg/L)



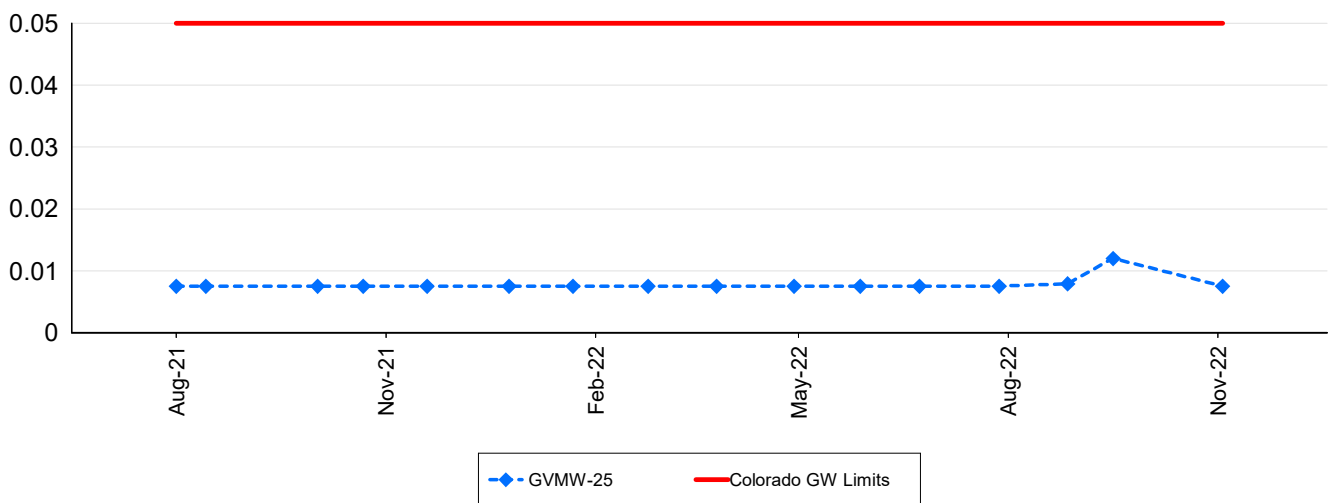
: Fluoride - Total F (mg/L)



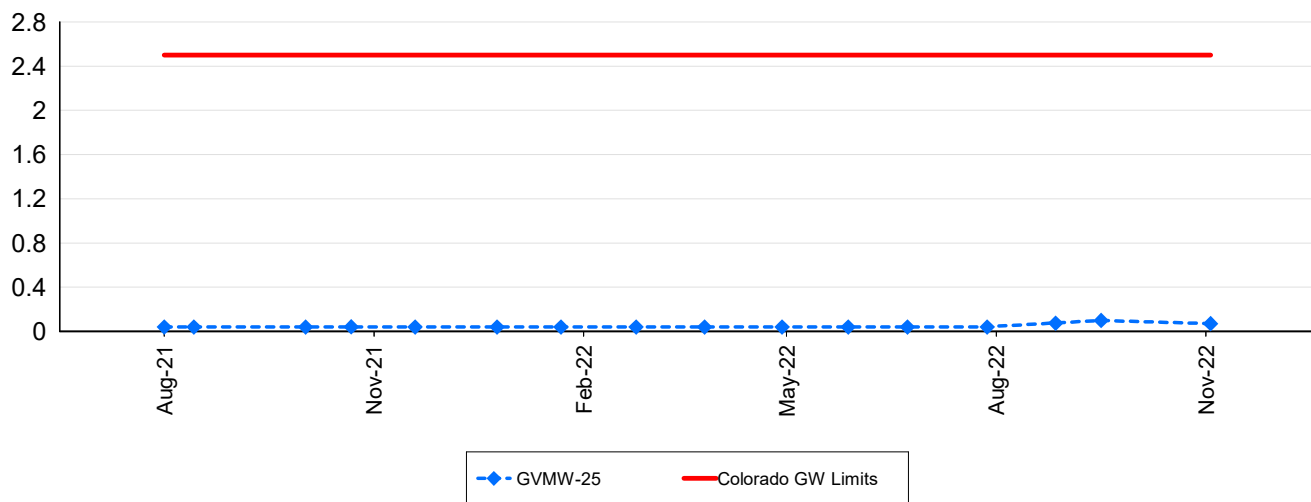
: Iron - Dissolved (mg/L)



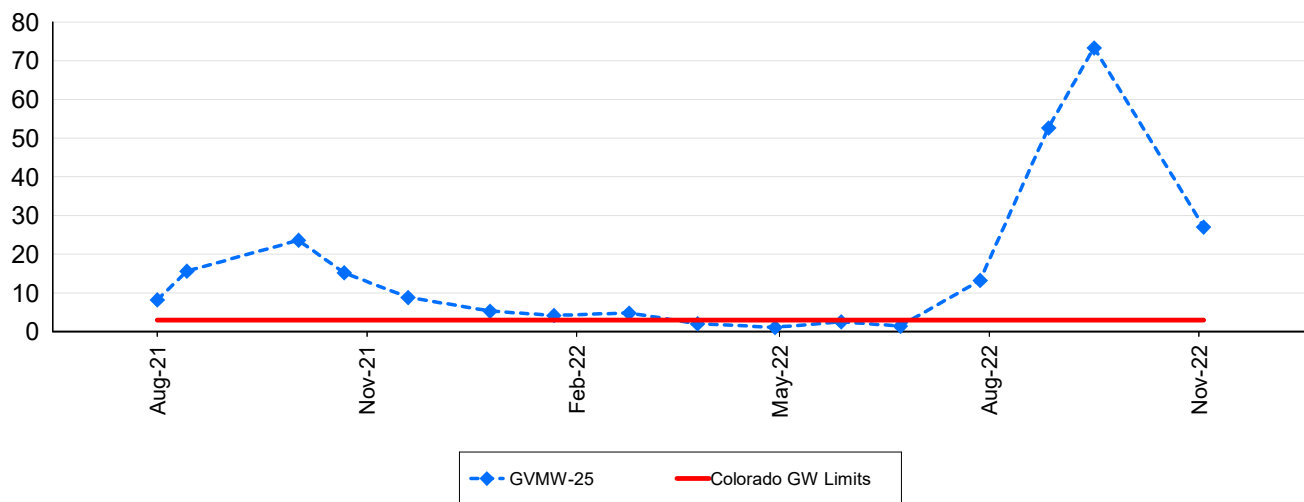
: Lead - Dissolved (mg/L)



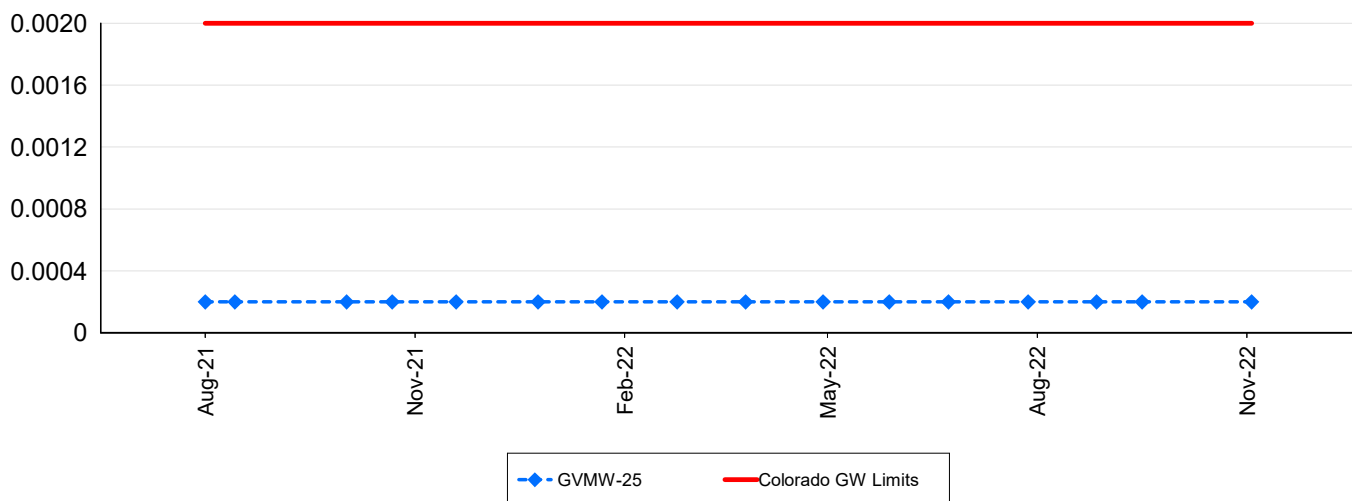
: Lithium - Dissolved (mg/L)



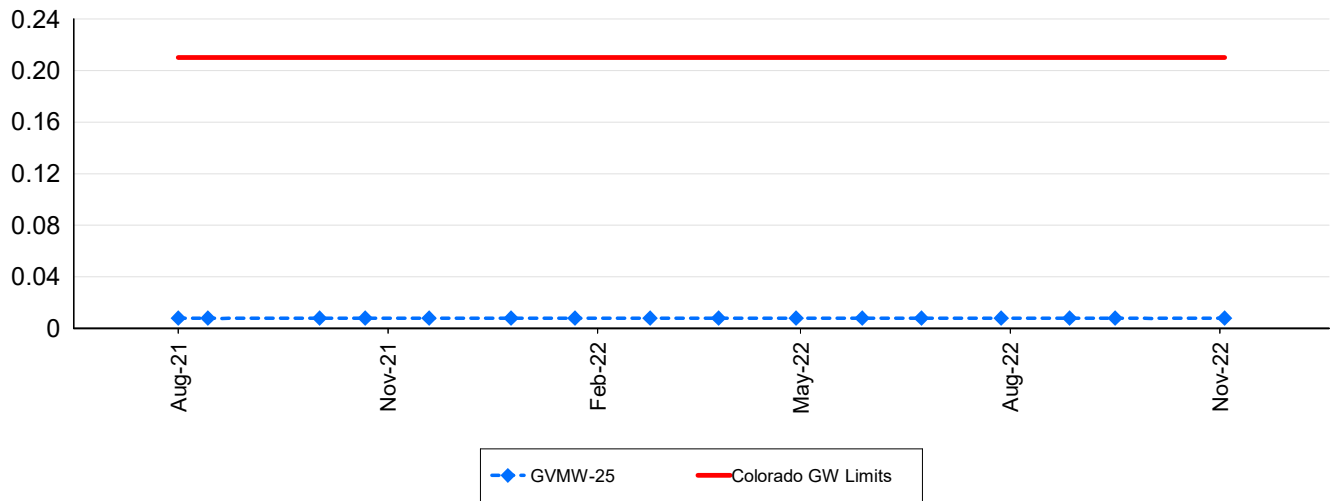
: Manganese - Dissolved (mg/L)



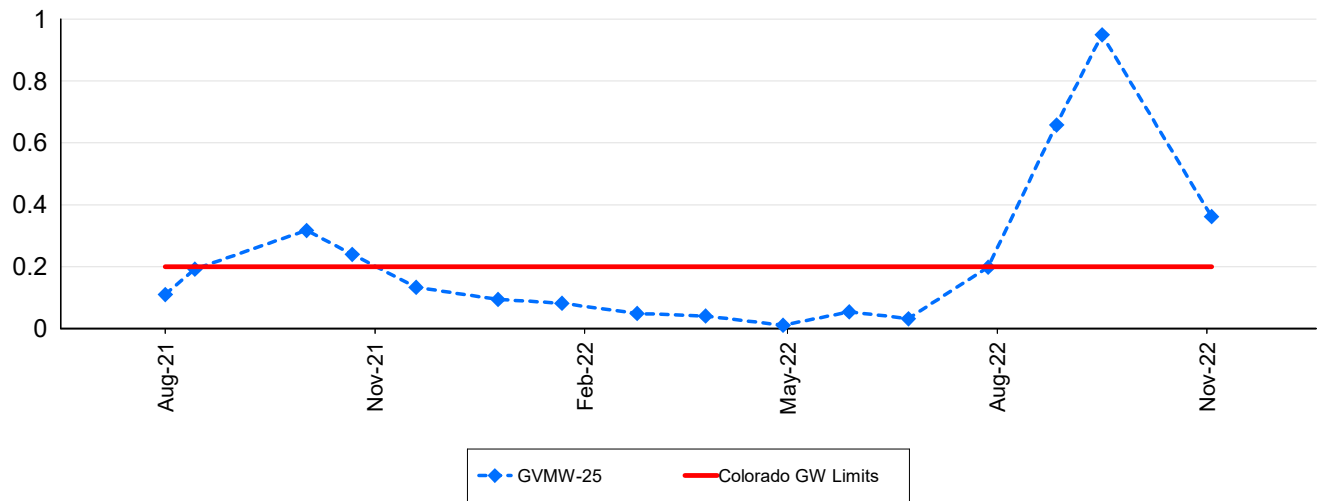
: Mercury - Dissolved (mg/L)



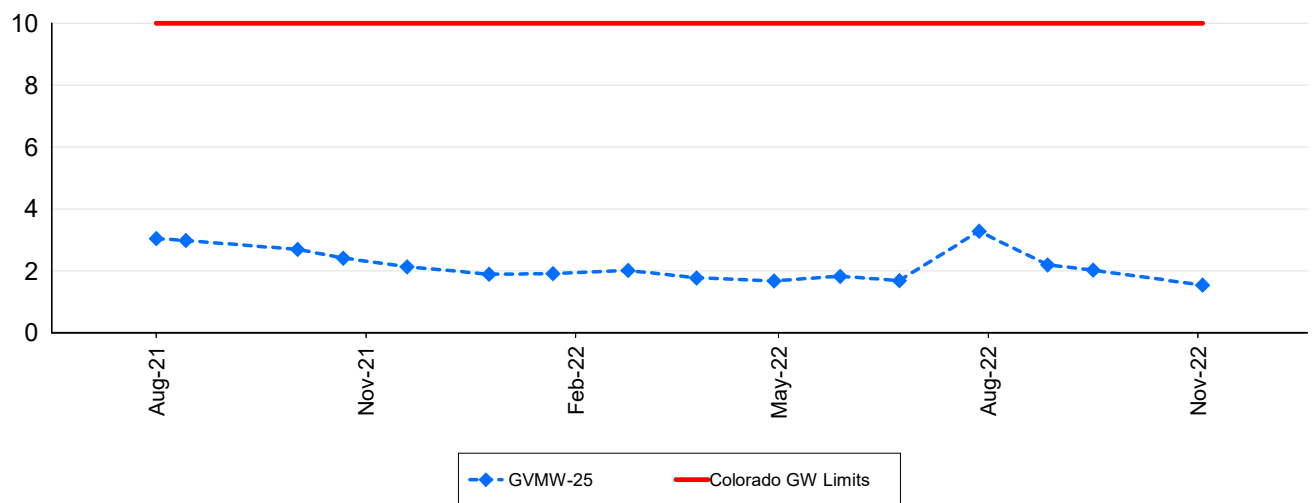
: Molybdenum - Dissolved (mg/L)



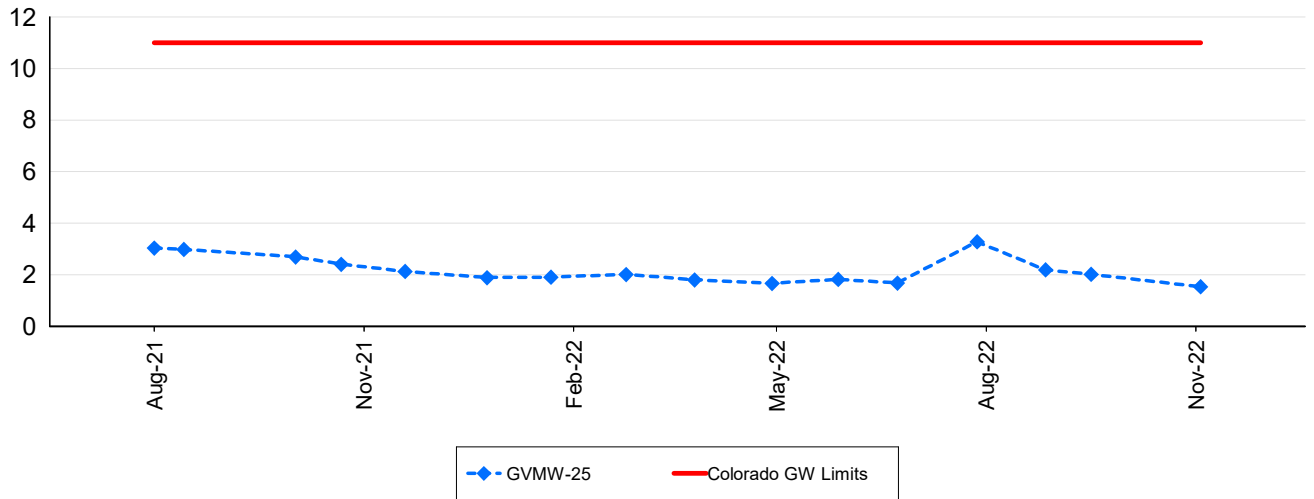
: Nickel - Dissolved (mg/L)



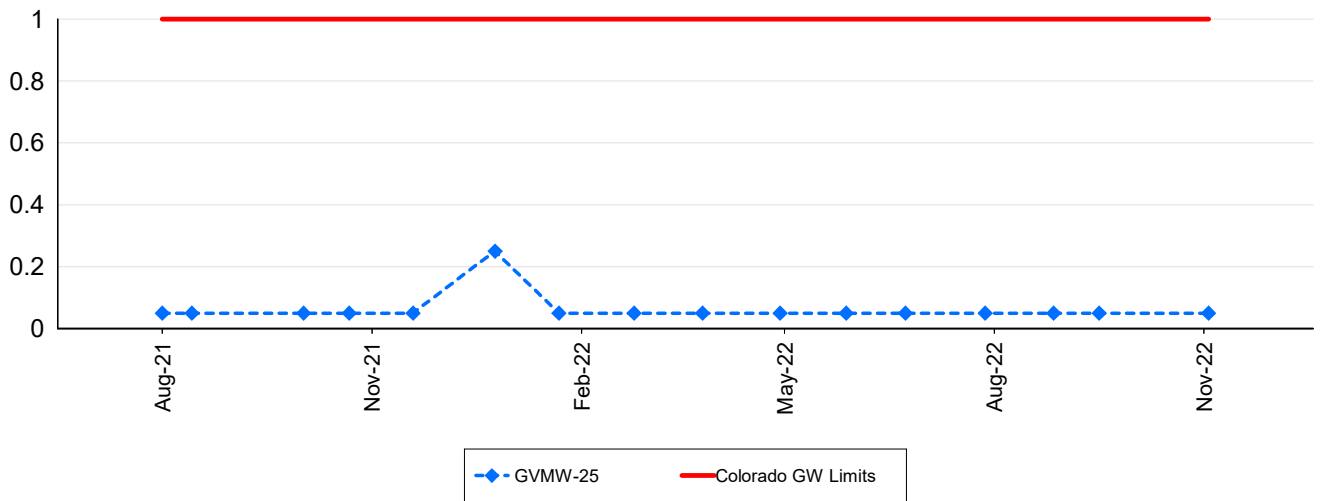
: Nitrate as Nitrogen (mg/L)



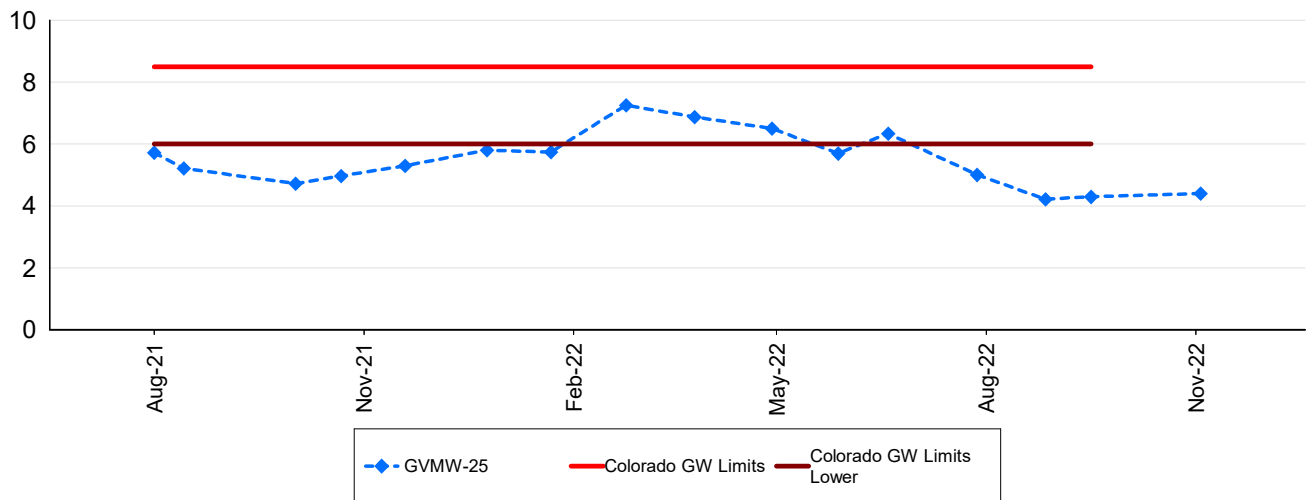
: Nitrite + Nitrate as Nitrogen (mg/L)



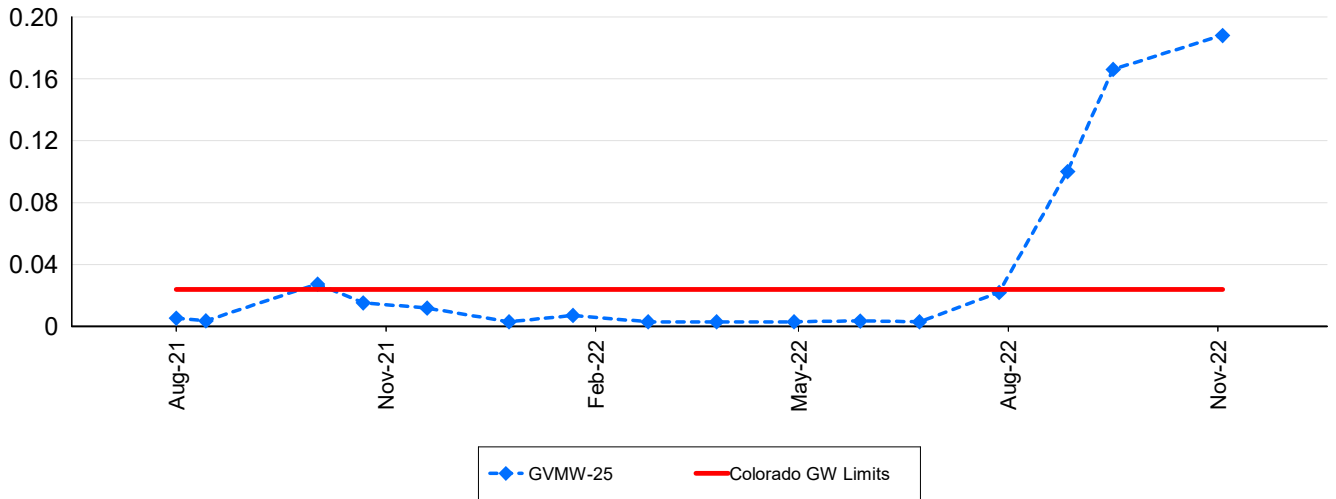
: Nitrite as Nitrogen (mg/L)



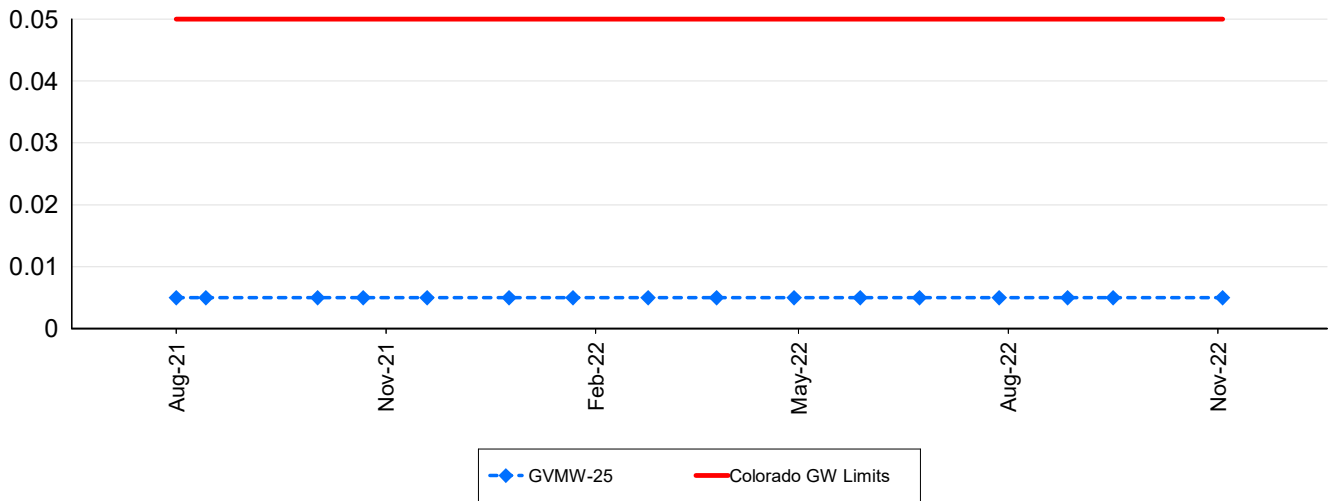
: pH Field (pH unit)



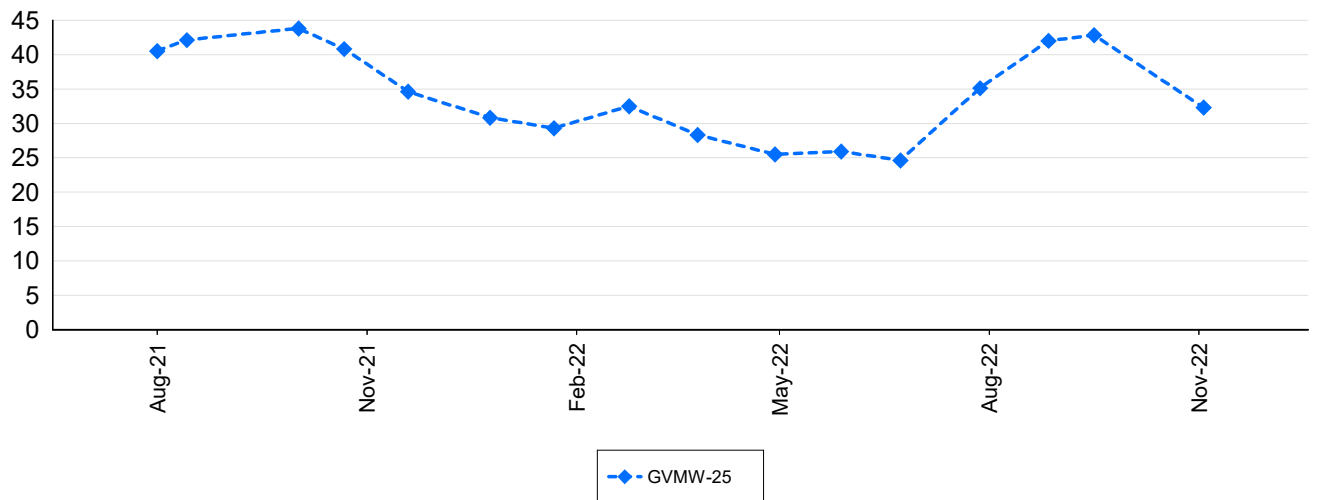
: Selenium - Dissolved (mg/L)



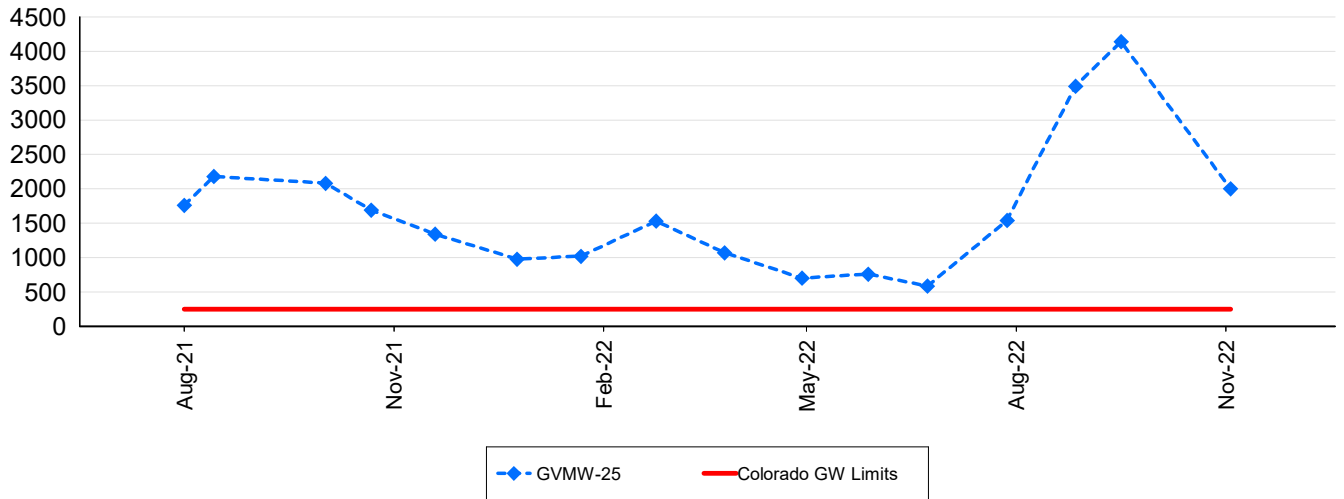
: Silver - Dissolved (mg/L)



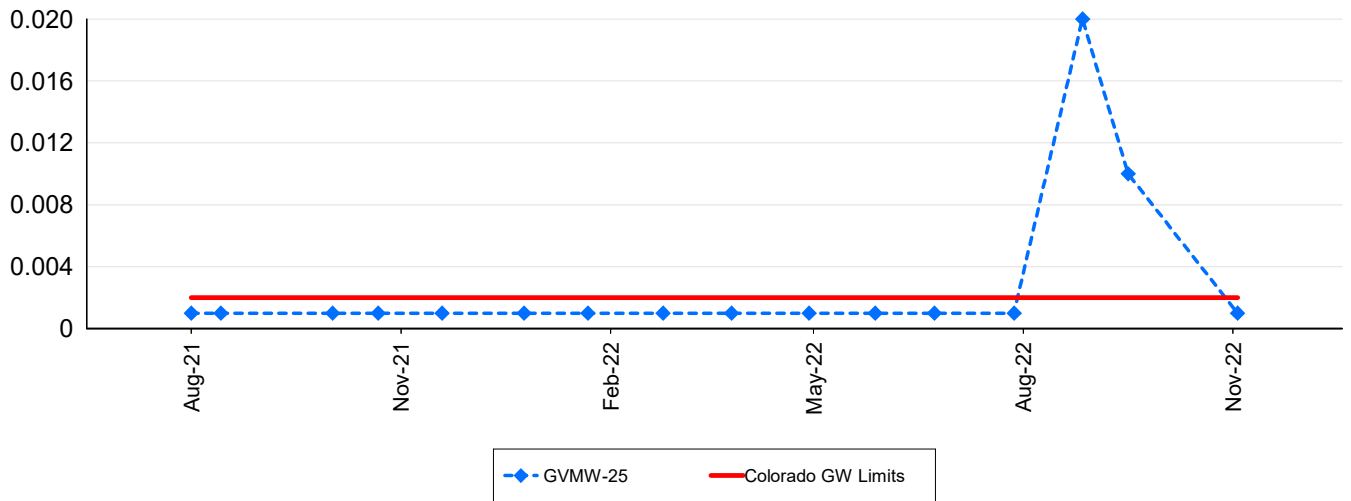
: Sodium - Dissolved (mg/L)



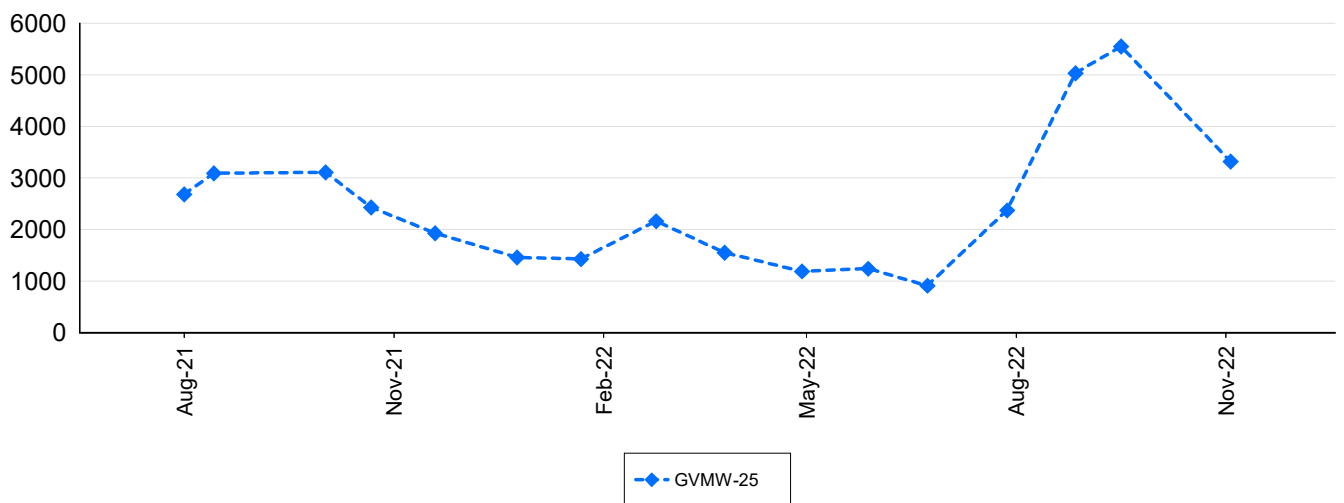
: Sulfate - Total (mg/L)



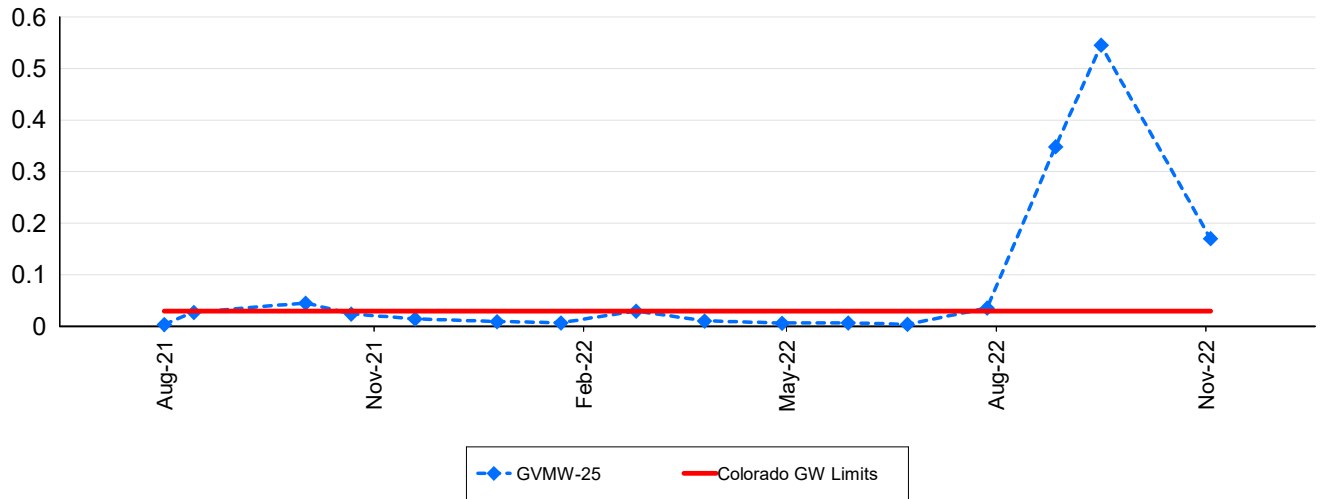
: Thallium - Dissolved (mg/L)



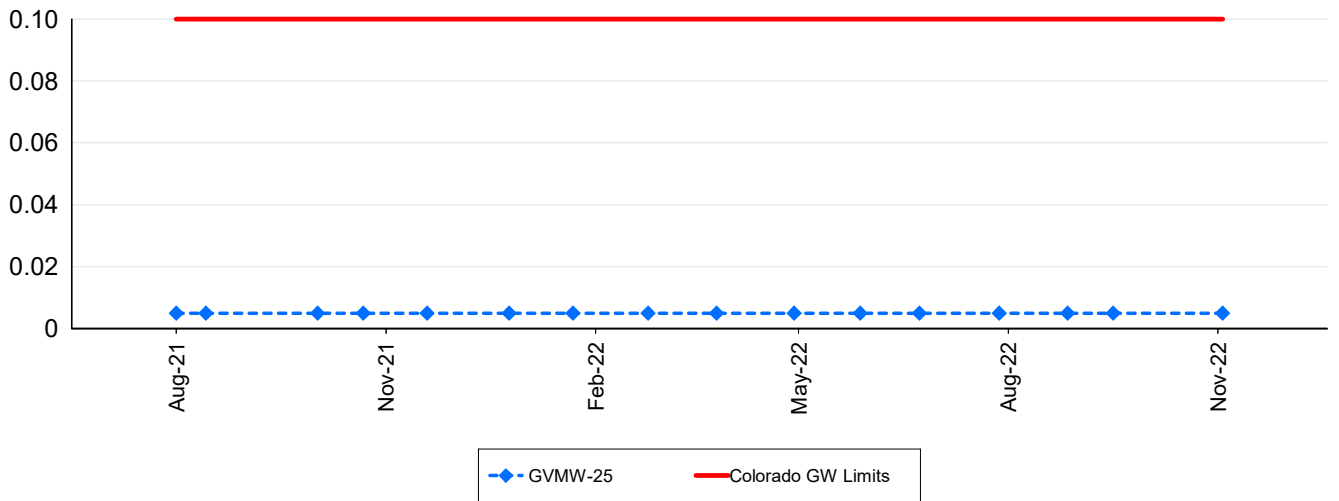
: Total Dissolved Solids (mg/L)



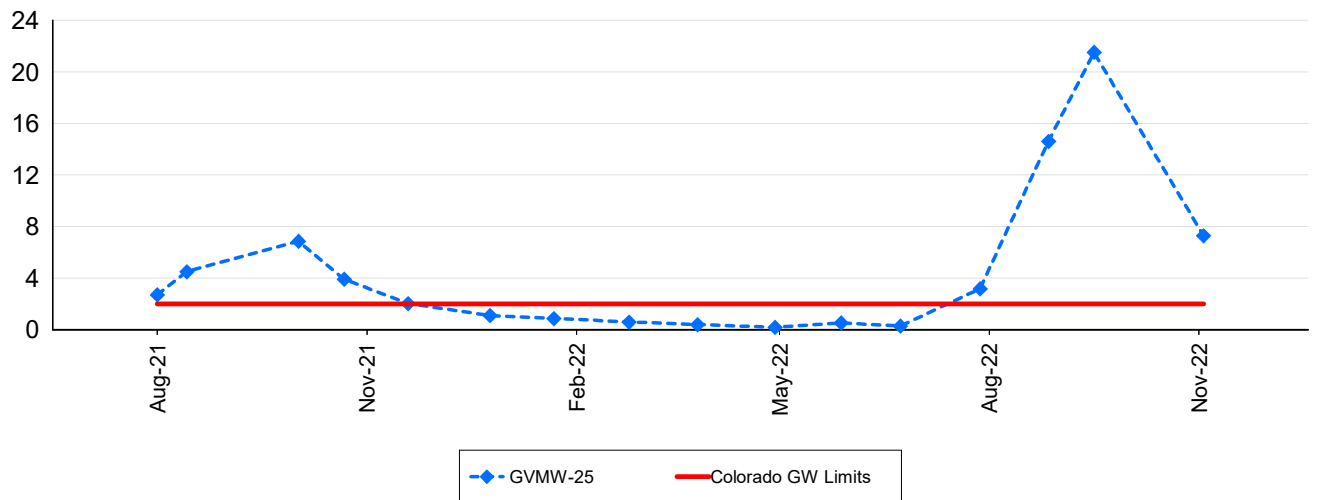
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)



GVMW-25 Analytical Report

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X2K0377**

Reported: 08-Dec-22 19:07

Client Sample ID: **GVMW-25**

Sampled: 21-Nov-22 14:40

Received: 22-Nov-22

Sampled By: BOD

SVL Sample ID: **X2K0377-02 (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	394	mg/L	0.100	0.035		X249063	AS	12/04/22 08:39	
EPA 200.7	Magnesium	127	mg/L	0.500	0.045		X249063	AS	12/04/22 08:39	
EPA 200.7	Potassium	5.16	mg/L	0.50	0.09		X249063	AS	12/04/22 08:39	
SM 2340 B	Hardness (as CaCO3)	1400	mg/L	2.31	0.358		N/A		12/06/22 14:44	
Metals (Dissolved)										
EPA 200.7	Aluminum	63.6	mg/L	0.080	0.054		X248094	SMU	12/06/22 14:44	
EPA 200.7	Barium	0.0096	mg/L	0.0020	0.0019		X248094	SMU	12/06/22 14:44	
EPA 200.7	Beryllium	0.0793	mg/L	0.00200	0.00080		X248094	SMU	12/06/22 14:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X248094	SMU	12/06/22 14:44	
EPA 200.7	Cadmium	0.206	mg/L	0.0020	0.0016		X248094	SMU	12/06/22 15:56	
EPA 200.7	Calcium	352	mg/L	0.100	0.069		X248094	SMU	12/06/22 14:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X248094	SMU	12/06/22 14:44	
EPA 200.7	Cobalt	0.151	mg/L	0.0060	0.0046		X248094	SMU	12/06/22 14:44	
EPA 200.7	Copper	0.157	mg/L	0.0100	0.0027		X248094	SMU	12/06/22 14:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X248094	SMU	12/06/22 14:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X248094	SMU	12/06/22 14:44	
EPA 200.7	Lithium	0.070	mg/L	0.040	0.025		X248094	SMU	12/06/22 14:44	
EPA 200.7	Magnesium	118	mg/L	0.500	0.090		X248094	SMU	12/06/22 14:44	
EPA 200.7	Manganese	27.0	mg/L	0.0080	0.0034		X248094	SMU	12/06/22 14:44	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X248094	SMU	12/06/22 14:44	
EPA 200.7	Nickel	0.362	mg/L	0.0100	0.0048		X248094	SMU	12/06/22 14:44	
EPA 200.7	Potassium	4.54	mg/L	0.50	0.18		X248094	SMU	12/06/22 14:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X248094	SMU	12/06/22 14:44	
EPA 200.7	Sodium	32.3	mg/L	0.50	0.12		X248094	SMU	12/06/22 14:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X248094	SMU	12/06/22 14:44	
EPA 200.7	Zinc	7.29	mg/L	0.0100	0.0054		X248094	SMU	12/06/22 14:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X248102	AS	12/07/22 15:47	
EPA 200.8	Arsenic	0.00570	mg/L	0.00100	0.00021		X248102	AS	12/07/22 15:49	
EPA 200.8	Selenium	0.188	mg/L	0.00100	0.00024		X248102	AS	12/07/22 15:47	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X248102	AS	12/07/22 15:49	
EPA 200.8	Uranium	0.170	mg/L	0.000100	0.000052		X248102	AS	12/07/22 15:49	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X249012	JRR	11/30/22 09:50	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @19.0°C	< 0.0050	mg/L	0.0050	0.0048		X249124	HJL	11/30/22 16:06	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X248138	KJR	11/28/22 19:47	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X248088	KAG	11/28/22 17:15	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X249123	HJL	11/30/22 13:50	
SM 2310 B	Acidity to pH 8.3	480	mg/L as CaCO3	10.0			X249117	MWD	12/02/22 10:36	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X248092	MWD	11/23/22 14:35	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X248092	MWD	11/23/22 14:35	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X248092	MWD	11/23/22 14:35	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X248092	MWD	11/23/22 14:35	
SM 2540 C	Total Diss. Solids	3320	mg/L	40			X249002	TJL	11/28/22 16:20	D2
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X249003	TJL	11/28/22 16:20	
SM 4500 H B	pH @19.4°C	4.2	pH Units				X248092	MWD	11/23/22 14:35	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Work Order: **X2K0377**

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Client Sample ID: **GVMW-25**

Sampled: 21-Nov-22 14:40

Received: 22-Nov-22

Sampled By: BOD

SVL Sample ID: **X2K0377-02 (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	20.2	mg/L	10.0	1.10	50	X248071	SMU	11/22/22 17:31	D2
EPA 300.0	Fluoride	4.42	mg/L	0.100	0.017		X248071	SMU	11/22/22 17:15	
EPA 300.0	Nitrate as N	1.54	mg/L	0.050	0.013		X248071	SMU	11/22/22 17:15	
EPA 300.0	Nitrate+Nitrite as N	1.54	mg/L	0.100	0.044		X248071	SMU	11/22/22 17:15	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X248071	SMU	11/22/22 17:15	
EPA 300.0	Sulfate as SO4	2000	mg/L	15.0	9.00	50	X248071	SMU	11/22/22 17:31	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 38.4 meq/L

Anion Sum: 42.6 meq/L

C/A Balance: -5.16 %

Calculated TDS: 2564

TDS/cTDS: 1.29

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

Herman J. Haring
Project Manager

Surface Water Photos



GV06



