



STATE OF COLORADO

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Compliance Requirement Past Due

Kyle Regan <Kyler@civilresources.com>
To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>
Cc: Eric Leigh - DEN <Eric.Leigh@quikrete.com>

Thu, Jun 19, 2025 at 2:39 PM

Good afternoon Patrick,

As we had discussed in the field a while back, the initial samples at the Monarch site were analyzed for total rather than dissolved concentrations. As a result, Monarch will need to extend the baseline collection period to Q3 of 2025. Do we need to submit a TR making this date change or can we just submit the report with the baseline results after the Q3 sampling period?

I have attached a summary of the first 4 quarters of results along with the lab reports. The only analyte that has been exceeded is Uranium in PZ-1(Q3 2024) and PZ015(Q3 2024 & Q1 2025).

Thanks,

Kyle

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[Quoted text hidden]

2 attachments

Groundwater Results Tables_Q3 2024-Q2 2025.pdf
139K

Lab Reports.zip
6863K



STATE OF
COLORADO

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Compliance Requirement Past Due

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>
To: Kyle Regan <Kyler@civilresources.com>
Cc: Eric Leigh - DEN <Eric.Leigh@quikrete.com>

Fri, Jun 20, 2025 at 6:04 AM

Good Morning,

No TR will be needed, this notification will be sufficient.

With the last remaining samples being collected in the third quarter the due date for submitting the TR for the baseline groundwater sampling will be 60 days after the last day of the third quarter or November 29, correct?

I will update the permit file accordingly.

Thank you,
Patrick

[Quoted text hidden]

[Quoted text hidden]



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

[Quoted text hidden]

Good Morning,

No TR will be needed, this notification will be sufficient.

With the last remaining samples being collected in the third quarter the due date for submitting the TR for the baseline groundwater sampling will be 60 days after the last day of the third quarter or November 29, correct?

I will update the permit file accordingly.

Thank you,
Patrick

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Department of Natural Resources

[Quoted text hidden]

Kyle Regan <Kyler@civilresources.com>
To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>
Cc: Eric Leigh - DEN <Eric.Leigh@quikrete.com>

Fri, Jun 20, 2025 at 6:15 AM

Correct, thanks Patrick.

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From: Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Sent: Friday, June 20, 2025 6:04:14 AM

To: Kyle Regan <Kyler@civilresources.com>

Cc: Eric Leigh - DEN <Eric.Leigh@quikrete.com>

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[Quoted text hidden]

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>
To: Kyle Regan <Kyler@civilresources.com>
Cc: Eric Leigh - DEN <Eric.Leigh@quikrete.com>

Fri, Jun 20, 2025 at 6:16 AM

I will update the compliance requirement in the permit system accordingly.

Thank you,
Patrick

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Table 2 - Groundwater Baseline Data (Q3 August 16, 2024)

Analyte	Compliance Standard		PZ-1	PZ-4	PZ-4 (Duplicate)	PZ-15	PZ-20	Method Used	Detection Limit(ug/L)	Notes
Aluminum (Al) Dissolved	5	mg/L	0.006	0.013	0.007	0.01	0.006	EPA 200.8	0.001	
Antimony(Sb) Dissolved	0.006	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0012	
Arsenic (As) Dissolved	0.01	mg/L	ND	ND	ND	ND	0.0009	EPA 200.8	0.0006	
Barium(Ba) Dissolved	2	mg/L	0.378	0.0473	0.0473	0.041	0.0444	EPA 200.8	0.0007	
Beryllium (Be) Dissolved	0.004	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Boron (B) Dissolved	0.75	mg/L	0.13	0.09	0.09	0.16	0.11	EPA 200.8	0.05	
Cadmium(Cd) Dissolved	0.005	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Chloride (Cl)	250	mg/L	140	130	132	164	109	EPA 300.0	0.5	
Chromium(Cr) Dissolved	0.1	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0015	
Cobalt (Co) Dissolved	0.05	mg/L	0.0004	0.0002	0.0002	0.0002	0.0003	EPA 200.8	0.0002	
Copper (Cu) Dissolved	0.2	mg/L	0.0012	ND	ND	0.0011	0.0014	EPA 200.8	0.0008	
Fluoride(F)	2	mg/L	0.86	0.75	0.84	0.84	1.02	EPA 300.0	0.5	
Iron (Fe) Dissolved	0.3	mg/L	0.005	ND	ND	ND	ND	EPA 200.8	0.005	
Lead(Pb) Dissolved	0.05	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Lithium(Li) Dissolved	2.5	mg/L	ND	ND	ND	ND	ND	EPA 200.7	0.1	
Nickel (Ni) Dissolved	0.1	mg/L	0.0022	0.0016	0.0016	0.0017	0.0015	EPA 200.8	0.0009	
Nitrate(NO3)	10	mg/L	6.57	5.57	5.62	7.3	2.88	EPA 300.0	0.25	
Nitrite (NO2)	1	mg/L	ND	ND	ND	ND	ND	EPA 300.0	0.15	
Nitrite & Nitrate (NO2+NO3)	10	mg/L	6.57	5.57	5.62	7.3	2.88	EPA 300.0	0.05	
Manganese (Mn) Dissolved	0.05	mg/L	0.0142	0.0026	0.0026	0.0019	0.0015	EPA 200.8	0.0008	
Mercury (Hg) Dissolved	0.01	mg/L	ND	ND	ND	ND	ND	EPA 245.1	0.0001	
Molybdenum(Mo) Dissolved	0.21	mg/L	0.0017	0.0013	0.0016	0.002	0.0042	EPA 200.8	0.0005	
Selenium(Se) Dissolved	0.05	mg/L	ND	0.0012	0.0011	0.0012	0.002	EPA 200.8	0.0008	
Silver(Ag) Dissolved	0.05	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0005	
Sulfate (SO 4)	250	mg/L	194	172	172	230	132	EPA 300.0	0.5	
Thallium(Tl) Dissolved	0.002	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0002	
Uranium(U) Dissolved	0.0168	mg/L	0.0284	0.0095	0.0095	0.0469	0.0113	EPA 200.8	0.0002	
Vanadium (V) Dissolved	0.1	mg/L	ND	ND	ND	ND	0.001	EPA 200.8	0.001	
Zinc (Zn) Dissolved	2	mg/L	0.002	ND	ND	ND	0.001	EPA 200.8	0.001	
TDS		(1.25 x the background value)	776	745	746	982	608	SM2540C	10 mg/L	

*ND = Non Detect

Table 2 - Groundwater Baseline Data (Q4 December 10, 2024)

Analyte	Compliance Standard		PZ-1	PZ-4	PZ-15	PZ-20	Method Used	Detection Limit(ug/L)	Notes
Aluminum (Al) Dissolved	5	mg/L	0.01	0.007	0.002	0.006	EPA 200.8	0.001	
Antimony(Sb) Dissolved	0.006	mg/L	ND	ND	ND	ND	EPA 200.8	0.0012	
Arsenic (As) Dissolved	0.01	mg/L	ND	ND	ND	0.0009	EPA 200.8	0.0006	
Barium(Ba) Dissolved	2	mg/L	0.0529	0.0594	0.0425	0.0775	EPA 200.8	0.0007	
Beryllium (Be) Dissolved	0.004	mg/L	ND	ND	ND	ND	EPA 200.8	0.0001	
Boron (B) Dissolved	0.75	mg/L	0.16	0.2	0.22	0.2	EPA 200.8	0.05	
Cadmium(Cd) Dissolved	0.005	mg/L	ND	ND	ND	ND	EPA 200.8	0.0001	
Chloride (Cl)	250	mg/L	146	170	174	157	EPA 300.0	0.5	
Chromium(Cr) Dissolved	0.1	mg/L	ND	ND	ND	ND	EPA 200.8	0.0015	
Cobalt (Co) Dissolved	0.05	mg/L	ND	0.0003	0.0002	0.0003	EPA 200.8	0.0002	
Copper (Cu) Dissolved	0.2	mg/L	ND	0.0012	0.0008	0.0011	EPA 200.8	0.0008	
Fluoride(F)	2	mg/L	0.77	0.82	0.8	1.22	EPA 300.0	0.5	
Iron (Fe) Dissolved	0.3	mg/L	ND	ND	ND	ND	EPA 200.8	0.005	
Lead(Pb) Dissolved	0.05	mg/L	ND	ND	ND	ND	EPA 200.8	0.0001	
Lithium(Li) Dissolved	2.5	mg/L	ND	ND	ND	ND	EPA 200.7	0.1	
Nickel (Ni) Dissolved	0.1	mg/L	0.0015	0.0019	0.0016	0.0016	EPA 200.8	0.0009	
Nitrate(NO3)	10	mg/L	6.4	9.24	6.68	2.96	EPA 300.0	0.25	
Nitrite (NO2)	1	mg/L	ND	ND	ND	ND	EPA 300.0	0.15	
Nitrite & Nitrate (NO2+NO3)	10	mg/L	6.4	9.24	6.68	2.96	EPA 300.0	0.05	
Manganese (Mn) Dissolved	0.05	mg/L	0.0019	0.0029	0.0036	0.0045	EPA 200.8	0.0008	
Mercury (Hg) Dissolved	0.01	mg/L	ND	ND	ND	ND	EPA 245.1	0.0001	
Molybdenum(Mo) Dissolved	0.21	mg/L	0.001	0.0027	0.0018	0.0046	EPA 200.8	0.0005	
Selenium(Se) Dissolved	0.05	mg/L	ND	ND	ND	0.0009	EPA 200.8	0.0008	
Silver(Ag) Dissolved	0.05	mg/L	ND	ND	ND	ND	EPA 200.8	0.0005	
Sulfate (SO 4)	250	mg/L	187	218	234	184	EPA 300.0	0.5	
Thallium(Tl) Dissolved	0.002	mg/L	ND	ND	ND	ND	EPA 200.8	0.0002	
Uranium(U) Dissolved	0.0168	mg/L	0.0046	0.0163	0.0141	0.0081	EPA 200.8	0.0002	
Vanadium (V) Dissolved	0.1	mg/L	ND	ND	ND	0.001	EPA 200.8	0.001	
Zinc (Zn) Dissolved	2	mg/L	ND	ND	0.002	0.001	EPA 200.8	0.001	
TDS		(1.25 x the background value)	759	877	915	745	SM2540C	10 mg/L	

*ND = Non Detect

Table 2 - Groundwater Baseline Data (Q1 February 14, 2025)

Analyte	Compliance Standard		PZ-1	PZ-4	PZ-4 (Duplicate)	PZ-15	PZ-20	Method Used	Detection Limit(ug/L)	Notes
Aluminum (Al) Dissolved	5	mg/L	0.007	0.007	0.008	0.003	0.002	EPA 200.8	0.001	
Antimony(Sb) Dissolved	0.006	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0012	
Arsenic (As) Dissolved	0.01	mg/L	ND	ND	ND	ND	0.0008	EPA 200.8	0.0006	
Barium(Ba) Dissolved	2	mg/L	0.581	0.0554	0.0544	0.0376	0.0842	EPA 200.8	0.0007	
Beryllium (Be) Dissolved	0.004	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Boron (B) Dissolved	0.75	mg/L	0.24	0.2	0.19	0.26	0.21	EPA 200.8	0.05	
Cadmium(Cd) Dissolved	0.005	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Chloride (Cl)	250	mg/L	161	146	145	146	151	EPA 300.0	0.5	
Chromium(Cr) Dissolved	0.1	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0015	
Cobalt (Co) Dissolved	0.05	mg/L	0.0003	0.0002	0.0002	0.0002	0.0003	EPA 200.8	0.0002	
Copper (Cu) Dissolved	0.2	mg/L	0.0011	ND	ND	0.0008	0.0011	EPA 200.8	0.0008	
Fluoride(F)	2	mg/L	0.82	0.78	0.75	0.83	1.26	EPA 300.0	0.5	
Iron (Fe) Dissolved	0.3	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.005	
Lead(Pb) Dissolved	0.05	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Lithium(Li) Dissolved	2.5	mg/L	ND	ND	ND	ND	ND	EPA 200.7	0.1	
Nickel (Ni) Dissolved	0.1	mg/L	0.0018	0.0014	0.0015	0.0015	0.0016	EPA 200.8	0.0009	
Nitrate(NO3)	10	mg/L	6.79	5.72	5.77	5.02	3.05	EPA 300.0	0.25	
Nitrite (NO2)	1	mg/L	ND	ND	ND	ND	ND	EPA 300.0	0.15	
Nitrite & Nitrate (NO2+NO3)	10	mg/L	6.79	5.72	5.77	5.02	3.05	EPA 300.0	0.05	
Manganese (Mn) Dissolved	0.05	mg/L	0.002	0.0018	0.0014	ND	0.0008	EPA 200.8	0.0008	
Mercury (Hg) Dissolved	0.01	mg/L	ND	ND	ND	ND	ND	EPA 245.1	0.0001	
Molybdenum(Mo) Dissolved	0.21	mg/L	0.0026	0.0011	0.0011	0.0018	0.0048	EPA 200.8	0.0005	
Selenium(Se) Dissolved	0.05	mg/L	ND	0.0009	ND	ND	0.001	EPA 200.8	0.0008	
Silver(Ag) Dissolved	0.05	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0005	
Sulfate (SO 4)	250	mg/L	212	188	189	209	183	EPA 300.0	0.5	
Thallium(Tl) Dissolved	0.002	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0002	
Uranium(U) Dissolved	0.0168	mg/L	0.0128	0.0056	0.0055	0.0201	0.0127	EPA 200.8	0.0002	
Vanadium (V) Dissolved	0.1	mg/L	ND	ND	ND	ND	0.001	EPA 200.8	0.001	
Zinc (Zn) Dissolved	2	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.001	
TDS		(1.25 x the background value)	750	713	684	774	718	SM2540C	10 mg/L	

*ND = Non Detect

Table 2 - Groundwater Baseline Data (Q2 June 4, 2025)

Analyte	Compliance Standard		PZ-1	PZ-4	PZ-4 (Duplicate)	PZ-15	PZ-20	Method Used	Detection Limit(ug/L)	Notes
Aluminum (Al) Dissolved	5	mg/L	0.003	0.002	0.003	0.002	ND	EPA 200.8	0.001	
Antimony(Sb) Dissolved	0.006	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0012	
Arsenic (As) Dissolved	0.01	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0006	
Barium(Ba) Dissolved	2	mg/L	0.0659	0.063	0.0638	0.0639	0.0627	EPA 200.8	0.0007	
Beryllium (Be) Dissolved	0.004	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Boron (B) Dissolved	0.75	mg/L	0.2	0.19	0.12	0.2	0.2	EPA 200.8	0.05	
Cadmium(Cd) Dissolved	0.005	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Chloride (Cl)	250	mg/L	151	151	158	158	158	EPA 300.0	0.5	
Chromium(Cr) Dissolved	0.1	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0015	
Cobalt (Co) Dissolved	0.05	mg/L	0.0003	0.0003	0.0003	0.0003	0.0002	EPA 200.8	0.0002	
Copper (Cu) Dissolved	0.2	mg/L	0.0017	0.0017	0.0018	0.0014	0.0011	EPA 200.8	0.0008	
Fluoride(F)	2	mg/L	1.25	1.22	0.98	1.01	1.27	EPA 300.0	0.5	
Iron (Fe) Dissolved	0.3	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.005	
Lead(Pb) Dissolved	0.05	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0001	
Lithium(Li) Dissolved	2.5	mg/L	ND	ND	ND	ND	ND	EPA 200.7	0.1	
Nickel (Ni) Dissolved	0.1	mg/L	0.0019	0.0019	0.002	0.0019	0.0018	EPA 200.8	0.0009	
Nitrate(NO3)	10	mg/L	4.05	4.03	4.36	4.33	4.3	EPA 300.0	0.25	
Nitrite (NO2)	1	mg/L	ND	ND	ND	ND	ND	EPA 300.0	0.15	
Nitrite & Nitrate (NO2+NO3)	10	mg/L	4.05	4.03	4.36	4.33	4.3	EPA 300.0	0.05	
Manganese (Mn) Dissolved	0.05	mg/L	ND	0.0009	0.0011	ND	ND	EPA 200.8	0.0008	
Mercury (Hg) Dissolved	0.01	mg/L	ND	ND	ND	ND	ND	EPA 245.1	0.0001	
Molybdenum(Mo) Dissolved	0.21	mg/L	0.0028	0.0027	0.0028	0.0027	0.0028	EPA 200.8	0.0005	
Selenium(Se) Dissolved	0.05	mg/L	ND	0.0012	ND	0.0013	ND	EPA 200.8	0.0008	
Silver(Ag) Dissolved	0.05	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0005	
Sulfate (SO 4)	250	mg/L	176	176	185	186	186	EPA 300.0	0.5	
Thallium(Tl) Dissolved	0.002	mg/L	ND	ND	ND	ND	ND	EPA 200.8	0.0002	
Uranium(U) Dissolved	0.0168	mg/L	0.0095	0.0095	0.0094	0.0096	0.0098	EPA 200.8	0.0002	
Vanadium (V) Dissolved	0.1	mg/L	0.001	0.001	0.001	0.001	0.001	EPA 200.8	0.001	
Zinc (Zn) Dissolved	2	mg/L	0.004	0.004	0.004	0.002	0.001	EPA 200.8	0.001	
TDS		(1.25 x the background value)	761	769	812	792	735	SM2540C	10 mg/L	

*ND = Non Detect