MONTHLY REPORTING PERIOD - JANUARY, 2026

SUMMARY

This document provides a summary of water quantity and quality data collected by BMID in January 2026.

WATER SUPPLY SUMMARY

Water Source	Active / Not Active	Volume (Mega Liters)	Irrigation / Domestic	Comments
Mission Ck.	**Active**	**247.18**	**Domestic/Irrig.**	Primary Water supply. Domestic and irrig. demand.
Scotty Creek	Not Active	0	Irrig. only	Scotty Creek will resume operations summer 2026
Well 3 Cornish	Not Active	0	Irrig. only	Well #3 upgrade underway to provide for irrigation
Well 4	Not Active	0	Domestic	Well 4 secondary water source in north-end
Well 5	Not Active	0	Domestic/Irrig	Well #5 will resume operations summer 2026
Well 6	Not Active	0	Irrig. only	Well # 6 will resume operations summer 2026
January 2026	**Total:**	**247.18**		**10 Year Average for January = 240.36**

WATER QUALITY SUMMARY

Raw Water Microbiological Summary		**E-Coli**		
Location	# of Samples	Lowest *E.Coli* Reading	Ave. *E.Coli* Reading	Highest *E.Coli* Reading
Mission Creek Intake	4	0	1.5	4
Stevens Reservoir	4	0	0	0
Hadden Reservoir	4	0	0.25	1

Treated Water Microbiological Summary		**Turbidity Summary**		
Location	Low Reading	Average Reading	High Reading	Comments
Mission Creek Raw Water	0.46 NTU	0.82 NTU	2.66 NTU	
Distribution Intake	0.40 NTU	0.43 NTU	0.46 NTU	
UV Plant	0.54 NTU	0.58 NTU	0.71 NTU	
Booster # 1 (first customer)	0.40 NTU	0.43 NTU	0.52 NTU	

UV Treatment Plant				
Plant Flow Volume	In-Spec	Off-Spec	% Off-Spec	Comments
m^3	247,177 m^3	0 m^3	0.00%	

WATER QUALITY DISTRIBUTION TESTING

		CARO (third party) Testing	**30**
BMID Population:	30,000	In House Pres./Absence	**10**
Required Minimum # of Tests:	30	Total Tests:	**40**
		Total Positive Tests:	**0**

Documentation and figures are provided on the following pages to support this submission.

1.0 FLOWS - JANUARY, 2026

Mission Creek provided 100% of the 247 Mega Liters used in the BMID system in January, with Well 4 remaining in standby if required.

Figure 1.1 - Domestic Water System Flow

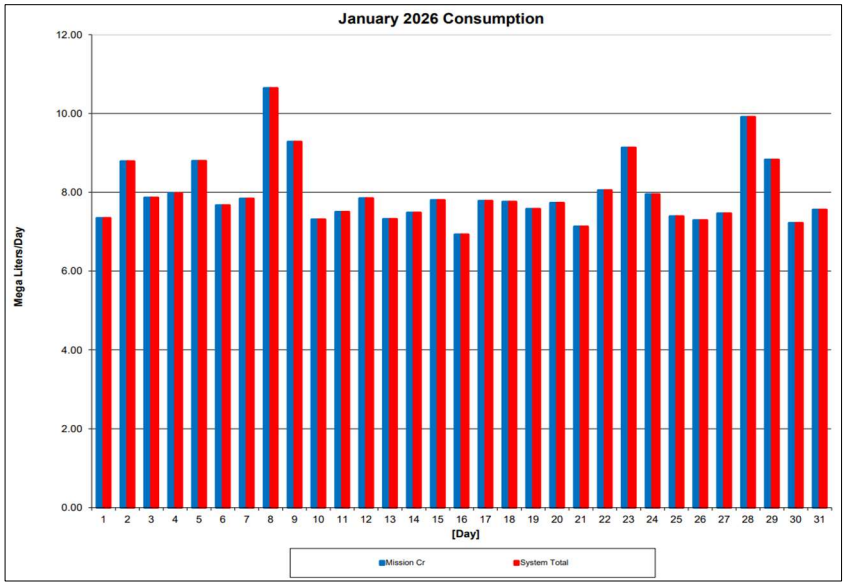


Table 1.2 - January 2026 - Daily Consumption Report

Year	Mission Cr	Well #4	Well #5	Well #6	System Total
2026	ML/Day	ML/Day	ML/Day	ML/Day	ML/Day
1-Jan	7.35	-	-	-	7.35
2-Jan	8.79	-	-	-	8.79
3-Jan	7.86	-	-	-	7.86
4-Jan	7.98	-	-	-	7.98
5-Jan	8.80	-	-	-	8.80
6-Jan	7.67	-	-	-	7.67
7-Jan	7.84	-	-	-	7.84
8-Jan	10.64	-	-	-	10.64
9-Jan	9.28	-	-	-	9.28
10-Jan	7.31	-	-	-	7.31
11-Jan	7.50	-	-	-	7.50
12-Jan	7.85	-	-	-	7.85
13-Jan	7.32	-	-	-	7.32
14-Jan	7.48	-	-	-	7.48
15-Jan	7.80	-	-	-	7.80
16-Jan	6.93	-	-	-	6.93
17-Jan	7.78	-	-	-	7.78
18-Jan	7.76	-	-	-	7.76
19-Jan	7.58	-	-	-	7.58
20-Jan	7.73	-	-	-	7.73
21-Jan	7.13	-	-	-	7.13
22-Jan	8.05	-	-	-	8.05
23-Jan	9.13	-	-	-	9.13
24-Jan	7.95	-	-	-	7.95
25-Jan	7.39	-	-	-	7.39
26-Jan	7.29	-	-	-	7.29
27-Jan	7.46	-	-	-	7.46
28-Jan	9.91	-	-	-	9.91
29-Jan	8.83	-	-	-	8.83
30-Jan	7.22	-	-	-	7.22
31-Jan	7.56	-	-	-	7.56
Total ML	**247.18**	**0.00**	**0.00**	**0.00**	**247.18**
Avg's	7.99	-	-	-	7.99
Max	10.64	0.00	0.00	0.00	10.64
Min	6.93	0.00	0.00	0.00	6.93

2.0 RAW WATER QUALITY - BACTERIOLOGICAL MONITORING

Raw water samples were taken at three points at BMID settling ponds before chlorination. Samples were taken at the Mission Creek raw water intake, the outlet for Stevens Pond, and the point of disinfection at the end of Hadden Reservoir.

Samples from the previous month are also provided to show a two-month trend

Figure 2.1 - Raw Water *E.Coli* Readings (CARO Lab results) December 2025 - January 2026

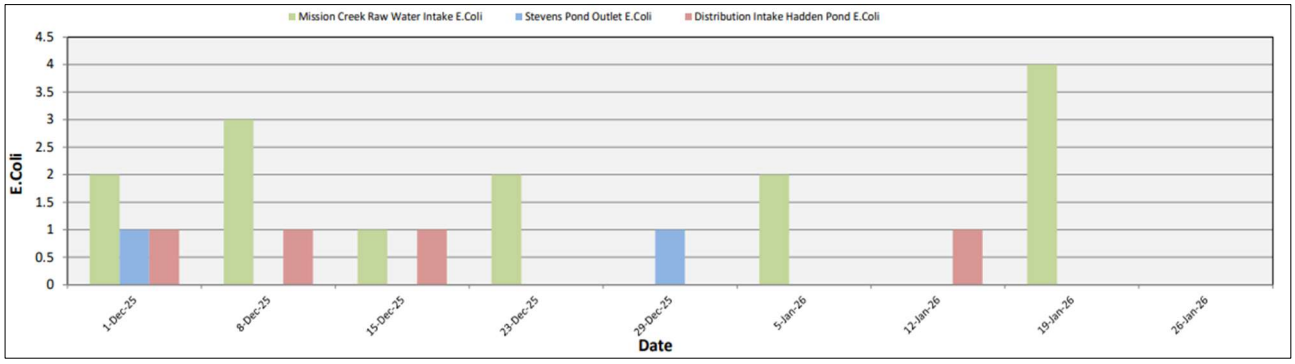


Table 2.1 - *E.Coli* Readings (CARO Labs)

Date	Mission Creek Raw Water Intake E.Coli	Stevens Pond Outlet E.Coli	Distribution Intake Hadden Pond E.Coli
1-Dec-25	2	1	1
8-Dec-25	3	0	1
15-Dec-25	1	0	1
23-Dec-25	2	0	0
29-Dec-25	0	1	0
5-Jan-26	2	0	0
12-Jan-26	0	0	1
19-Jan-26	4	0	0
26-Jan-26	0	0	0

Stevens or WTP Intake (Raw) - Sampling of raw water at intake from Mission Creek

Stevens Outlet (Raw) - Sampling point after exiting 142,000 m^3 1st upper balancing reservoir (Stevens Res.)

Hadden Outlet (Raw) - Sampling point after exiting 75,000 m^3 2nd lower balancing reservoir (Hadden Res.)

(*Hadden Outlet = Distribution Intake - Point of Disinfection*)

3.0 RAW AND TREATED WATER TURBIDITY

Turbidity is measured online at four locations, Mission Creek raw water intake, the Distribution Intake, the UV treatment plant, and Booster #1. The first user of the BMID system is located near Booster #1. The highest turbidity level recorded at this location was 0.52 NTU on January 4, 2026.

Figure 3.1 – Daily Turbidity Readings
(Mission Creek Raw - Distribution Intake – UV Plant and Booster Station #1)

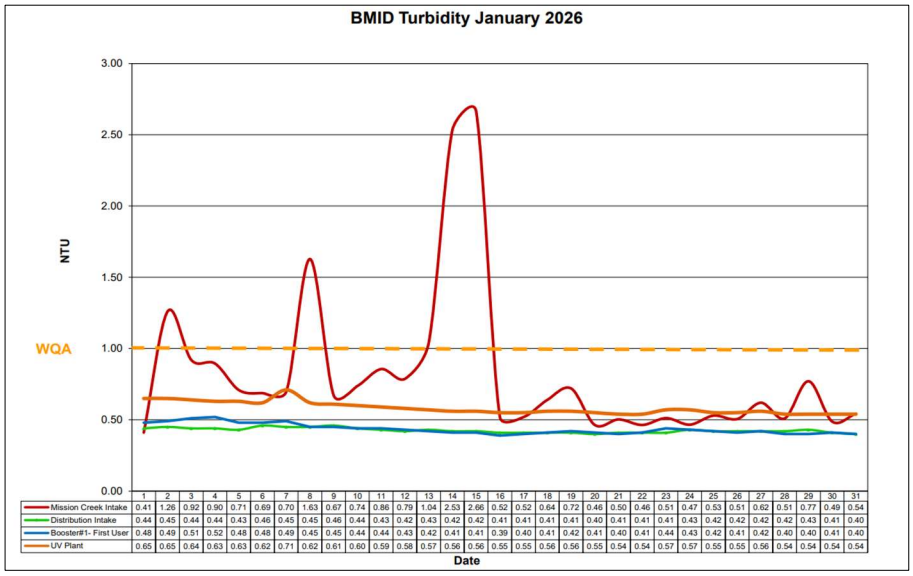


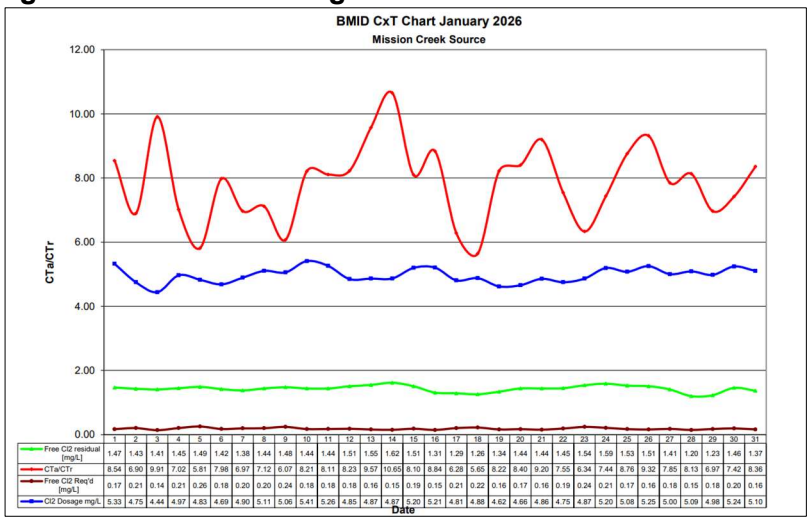
Table 3.1 - Daily Monitoring Record – Turbidity at On-Line Turbidity Analyzers

Turbidity Point Sampling for January 2026				
Date	Mission Creek Intake	Distribution Intake	UV Plant	Booster#1- First User
	Daily Average [NTU]	Daily Average NTU	Daily Average [NTU]	Daily Average NTU
1	0.41	0.44	0.65	0.48
2	1.26	0.45	0.65	0.49
3	0.92	0.44	0.64	0.51
4	0.90	0.44	0.63	0.52
5	0.71	0.43	0.63	0.48
6	0.69	0.46	0.62	0.48
7	0.70	0.45	0.71	0.49
8	1.63	0.45	0.62	0.45
9	0.67	0.46	0.61	0.45
10	0.74	0.44	0.60	0.44
11	0.86	0.43	0.59	0.44
12	0.79	0.42	0.58	0.43
13	1.04	0.43	0.57	0.42
14	2.53	0.42	0.56	0.41
15	2.66	0.42	0.56	0.41
16	0.52	0.41	0.55	0.39
17	0.52	0.41	0.55	0.40
18	0.64	0.41	0.56	0.41
19	0.72	0.41	0.56	0.42
20	0.46	0.40	0.55	0.41
21	0.50	0.41	0.54	0.40
22	0.46	0.41	0.54	0.41
23	0.51	0.41	0.57	0.44
24	0.47	0.43	0.57	0.43
25	0.53	0.42	0.55	0.42
26	0.51	0.42	0.55	0.41
27	0.62	0.42	0.56	0.42
28	0.51	0.42	0.54	0.40
29	0.77	0.43	0.54	0.40
30	0.49	0.41	0.54	0.41
31	0.54	0.40	0.54	0.40
AVG	0.82	0.43	0.58	0.43

4.0 CHLORINE CONTACT TIME

Temperature, pH, peak flow and chlorine residual levels are recorded to determine the CT levels that are required to provide 3 log inactivation of *Giardia*. Chlorine Contact times exceeded the CT levels required to provide 3 log (99.9%) inactivation of *Giardia Lamblia* throughout the month of January, 2026.

Figure 4.1 - CT Trending – BMID Mission Creek Source – January 2026



CTa – CT achieved
CTr – CT Required

The minimum CT that BMID achieved was 5.65 X that of what was required

Table 4.2 - CT Table – Mission Creek Source

BMID January 2026 Mission Creek Source												
DATE	pH Average	TEMP (Present)	PEAK FLOW	Free Cl_2 residual	CT achieved	CT req'd	CTa/CTr	Free Cl_2 Req'd	Cl2 Dosage	TIME	FLOW Daily Average	Dosage Average
January		[°C]	L/s	[mg/L]				[mg/L]	mg/L	[mins]	Liters/Second	KG/Day
1	7.23	4.4	150	1.47	1639	191.8	8.54	0.17	5.33	1115	64	29.3
2	7.25	4.3	179	1.43	1336	193.8	6.90	0.21	4.75	935	85	34.9
3	7.26	4.2	122	1.41	1937	195.4	9.91	0.14	4.44	1374	82	31.3
4	7.27	3.1	162	1.45	1492	212.6	7.02	0.21	4.97	1029	74	31.8
5	7.27	4.1	215	1.49	1158	199.2	5.81	0.26	4.83	777	84	35.0
6	7.27	4.1	150	1.42	1578	197.7	7.98	0.18	4.69	1111	75	30.5
7	7.26	3.8	165	1.38	1396	200.3	6.97	0.20	4.90	1011	73	31.1
8	7.26	3.8	168	1.44	1435	201.6	7.12	0.20	5.11	997	67	29.4
9	7.25	3.8	202	1.48	1224	201.6	6.07	0.24	5.06	827	71	31.0
10	7.25	3.8	146	1.44	1650	200.8	8.21	0.18	5.41	1146	62	29.2
11	7.25	3.8	148	1.44	1629	200.8	8.11	0.18	5.26	1131	66	29.9
12	7.25	3.8	152	1.51	1664	202.3	8.23	0.18	4.85	1102	75	31.3
13	7.25	4.0	135	1.55	1917	200.3	9.57	0.16	4.87	1237	69	29.2
14	7.25	3.9	125	1.62	2162	203.0	10.65	0.15	4.87	1335	71	29.8
15	7.23	3.9	156	1.51	1614	199.4	8.10	0.19	5.20	1069	69	31.0
16	7.23	3.8	126	1.31	1737	196.5	8.84	0.15	5.21	1326	61	27.7
17	7.23	3.8	175	1.29	1232	196.1	6.28	0.21	4.81	955	74	30.9
18	7.22	3.9	193	1.26	1091	193.3	5.65	0.22	4.88	866	73	30.7
19	7.23	3.9	139	1.34	1610	195.8	8.22	0.16	4.62	1202	76	30.2
20	7.22	3.9	145	1.44	1657	197.2	8.40	0.17	4.66	1151	76	30.7
21	7.21	4.0	134	1.44	1795	195.1	9.20	0.16	4.86	1246	68	28.4
22	7.21	4.0	164	1.45	1474	195.3	7.55	0.19	4.75	1017	78	31.9
23	7.20	4.0	207	1.54	1244	196.4	6.34	0.24	4.87	808	85	35.7
24	7.24	3.9	177	1.59	1500	201.7	7.44	0.21	5.20	944	71	31.7
25	7.19	3.5	144	1.53	1773	202.3	8.76	0.17	5.08	1159	67	29.4
26	7.19	4.1	140	1.51	1805	193.7	9.32	0.16	5.25	1195	64	29.0
27	7.19	4.2	158	1.41	1495	190.4	7.85	0.18	5.00	1060	69	29.8
28	7.19	4.2	133	1.20	1512	185.9	8.13	0.15	5.09	1260	63	27.5
29	7.18	4.2	159	1.23	1295	185.8	6.97	0.18	4.98	1053	71	30.4
30	7.18	4.2	172	1.46	1415	190.7	7.42	0.20	5.24	969	63	28.8
31	7.20	4.2	144	1.37	1590	190.3	8.36	0.16	5.10	1161	68	30.2
Averages	7.23	4.0	158	1.43	1550	197.0	7.87	0.19	4.97	1083	71	30.6

*This calculation is based on a total volume of 10,030 m^3 of water to calculate contact time

5.0 ULTRAVIOLET DISINFECTION

Total Water Treated:	247,177 m^3	100.000%
On-Spec Water:	247,177 m^3	100.000%
Off-Spec Water:	0 m^3	0.000%

Average monthly chlorine residual before UV Treatment was 1.59 mg/L
The average monthly chlorine residual after UV treatment and re-chlorination was 1.58 mg/L.

Figure 5.1 - UV Disinfection – BMID Mission Creek Source – January 2026

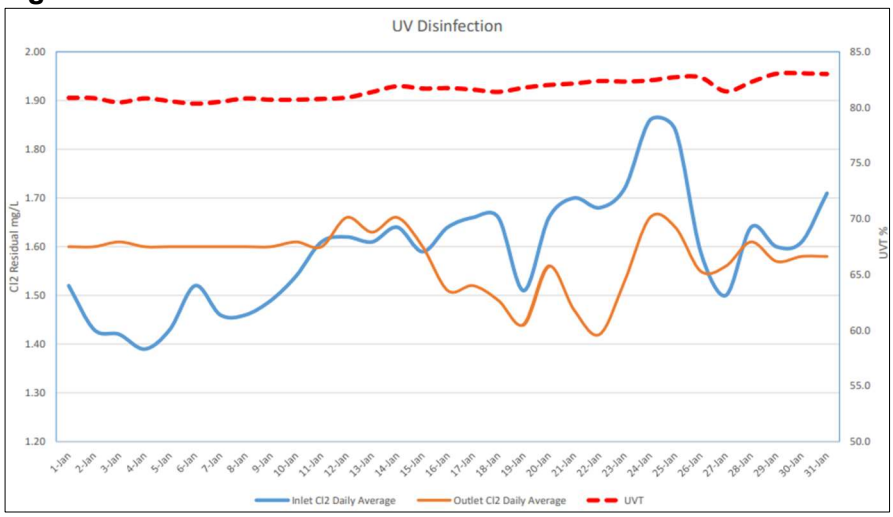


Table 5.2 - UV Disinfection Table – Mission Creek Source

	Inlet Cl2 Daily	Outlet Cl2 Daily Average		UVT	Turbidity		In Spec Water Volume	Off Spec Water Volume	Off Spec % of Water Volume
Date	mg/L	mg/L		% T	NTU		Cubic Meters	Cubic Meters	Percentage
1-Jan	1.52	1.60		80.9	0.65		7347	0	0.00%
2-Jan	1.43	1.60		80.8	0.65		8786	0	0.00%
3-Jan	1.42	1.61		80.5	0.64		7864	0	0.00%
4-Jan	1.39	1.60		80.8	0.63		7976	0	0.00%
5-Jan	1.43	1.60		80.6	0.63		8796	0	0.00%
6-Jan	1.52	1.60		80.4	0.62		7669	0	0.00%
7-Jan	1.46	1.60		80.5	0.71		7840	0	0.00%
8-Jan	1.46	1.60		80.8	0.62		10644	0	0.00%
9-Jan	1.49	1.60		80.7	0.61		9283	0	0.00%
10-Jan	1.54	1.61		80.7	0.60		7311	0	0.00%
11-Jan	1.61	1.60		80.8	0.59		7502	0	0.00%
12-Jan	1.62	1.66		80.9	0.58		7848	0	0.00%
13-Jan	1.61	1.63		81.4	0.57		7322	0	0.00%
14-Jan	1.64	1.66		81.9	0.56		7482	0	0.00%
15-Jan	1.59	1.60		81.7	0.56		7802	0	0.00%
16-Jan	1.64	1.51		81.7	0.55		6931	0	0.00%
17-Jan	1.66	1.52		81.6	0.55		7782	0	0.00%
18-Jan	1.66	1.49		81.4	0.56		7759	0	0.00%
19-Jan	1.51	1.44		81.8	0.56		7577	0	0.00%
20-Jan	1.66	1.56		82.0	0.55		7732	0	0.00%
21-Jan	1.70	1.47		82.2	0.54		7130	0	0.00%
22-Jan	1.68	1.42		82.4	0.54		8051	0	0.00%
23-Jan	1.72	1.53		82.3	0.57		9132	0	0.00%
24-Jan	1.86	1.66		82.4	0.57		7951	0	0.00%
25-Jan	1.84	1.64		82.7	0.55		7391	0	0.00%
26-Jan	1.59	1.55		82.7	0.55		7292	0	0.00%
27-Jan	1.50	1.56		81.5	0.56		7464	0	0.00%
28-Jan	1.64	1.61		82.3	0.54		9910	0	0.00%
29-Jan	1.60	1.57		83.0	0.54		8827	0	0.00%
30-Jan	1.61	1.58		83.1	0.54		7221	0	0.00%
31-Jan	1.71	1.58		83.0	0.54		7557	0	0.00%
Average	1.59	1.58		81.6		Total	247177	0	0.000%

6.0 WATER DISTRIBUTION SAMPLING (TREATED)

Third Party Analysis (CARO Analytical Services)

- Samples taken once per week at ten locations around the BMID service area.
- 30 samples were found to be absent of Coliforms.
- 30 samples were found to be absent of *E.Coli*.

Table 6.1 - CARO Independent Lab Testing – Total Coliforms – *E.Coli*

Date	1-Dec-25		8-Dec-25		15-Dec-25		23-Dec-25		29-Dec-25		5-Jan-26		12-Jan-26		19-Jan-26		26-Jan-26	
	Coliforms	E.Coli	Coliforms	E.Coli	Coliforms	E.Coli	Coliforms	E.Coli	Coliforms	E.Coli	Coliforms	E.Coli	Coliforms	E.Coli	Coliforms	E.Coli	Coliforms	E.Coli
2921 Belgo Rd			0	0			0	0			0	0			0	0		
Booster #1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ellison Blow-Off	0	0			0	0			0	0			0	0			0	0
Ellison School	0	0			0	0			0	0			0	0			0	0
3976 Highway 97	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prospect Reservoir			0	0			0	0			0	0			0	0		
Tower Ranch Reservoir	0	0			0	0			0	0			0	0			0	0
Well #4	0	0	0	0							0	0						
Well #5																		
Well# 6																		
Surface water at Well #4					0	0	0	0	0	0			0	0	0	0	0	0
Kirshner Reservoir			0	0			0	0			0	0			0	0		
Pearson School			0	0	0	0	0	0			0	0	0	0	0	0	0	0
Esquire Reservoir							0	0			0	0			0	0		

In-House Analysis (BMID Staff)

- Presence/Absence samples taken on a three-week cycle at seven sites around the BMID service area.
- All 10 samples were found to be absent of both *Total Coliforms* and *E.Coli*.

Table 6.2 - BMID In-house Testing – Presence Absence

Location	1/6/2026				1/13/2026				1/19/2026				1/26/2026			
	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.
Sylvania Cres	0.85	9.7	-	X									0.96	7.9	-	X
170 Kneller Rd	0.82	8.3	-	X									1.02	8.1	-	X
2105 Morrison					0.48	9.1	-	X								
Staymen Rd					0.22	8.5	-	X								
260 Campion Rd									0.04	9.6	-	X				
Fenwick Rd									0.64	9.5	-	X				
Solly Ct	1.11	8.1	-	X									1.19	10.1	-	X

Table 6.3 - BMID Disinfection By-product Testing – THM and HAA

12-Jan-26		
Location	THM (mg/L)	HAA (mg/L)
Kirschner Reservoir	**0.125**	**0.168**
Pearson School	**0.117**	**0.140**
2921 Belgo Rd	**0.124**	**0.111**
Ellison School*	**0.100**	**0.162**
3976 Hwy 97 N	**0.100**	**0.141**

- THM quarterly averages (0.1132 mg/L) were above acceptable limits as set out in the Guideline for Canadian Drinking Water Quality (below 0.10 mg/L).
- HAA quarterly averages (0.1444 mg/L) were above acceptable limits (below 0.08 mg/L).
- Disinfection By-Product values should reduce in spring 2026 when the WTP resumes operations.

7.0 CUSTOMER CALLS - INFRASTRUCTURE REPAIRS – CONSTRUCTION ACTIVITY

7.1 Customer Complaints

Date	Incident
Jan 12, 2026	Received a routine customer complaint regarding low pressure on Klassen Rd.

7.2 Infrastructure Repairs & Renewal

Date	Incident
Jan 6, 2026	Air valve repair – 1785 Swainson Rd
Jan 7, 2026	Fire hydrant repair – 1077 Webster
Jan 13, 2026	Fire Hydrant replacement – 1000 Leathead Rd
Jan 14, 2026	Fire hydrant replacement – 616 McCurdy Rd.
Jan 20, 2026	Service leak repaired – Chichester Court
Jan 22, 2026	Service leak repaired – Franklyn Rd

7.3 New Water Infrastructure Construction

Date	Incident
Jan 6-12, 2026	250mm watermain installation at 1200 Belgo Road (BMID works yard)
Jan - ongoing	Upper Tower Ranch Pump Station – station construction
Jan 23, 2026	Well 4,5,6 – pad for new generator installed
Jan 26, 2026	Scotty Creek intake – back-up generator pad installation
Jan 28, 2026	400mm water main – Kirschner Mtn. Reservoir to Loseth Drive