



MONTHLY REPORTING PERIOD - JUNE, 2025

SUMMARY

This document provides a summary of water quantity and quality data collected by BMID in June 2025.

WATER SUPPLY SUMMARY

Water Source	Active / Not Active	Volume (Mega Liters)	Irrigation / Domestic	Comments
Mission Ck.	Active	2,117.77	Domestic/Irrig.	Primary Water supply. Domestic and irrig. demand.
Scotty Creek	Active	145.72	Irrig. only	Scotty Creek source resumed operations in May 2025
Well 3 Cornish	Not Active	0	Irrig. only	Well #3 upgrade underway to provide for irrigation
Well 4	Not Active	0	Domestic	Low flow domestic source in North-end
Well 5	Active	179.34	Domestic/Irrig	Well #5 resumed operations in May 2025
Well 6	Active	53.14	Irrig. only	Well # 6 resumed operations in May 2025
June 2025	Total:	2,495.97	10 Year Average for June = 1963.03	

WATER QUALITY SUMMARY

Raw Water Microbiological Summary		E-Coli		
Location	# of Samples	Lowest <i>E. Coli</i> Reading	Ave. <i>E. Coli</i> Reading	Highest <i>E. Coli</i> Reading
Mission Creek Intake	5	10	17.4	32
Stevens Reservoir	5	0	1.4	3
Hadden Reservoir	5	0	1.6	5
Treated Water Microbiological Summary		Turbidity Summary		
Location	Low Reading	Average Reading	High Reading	Comments
Mission Creek Raw Water	1.00 NTU	2.78 NTU	12.88 NTU	
Distribution Intake	0.16 NTU	0.26 NTU	1.07 NTU	
Booster # 1 (first customer)	0.16 NTU	0.29 NTU	0.81 NTU	
UV Treatment Plant	0.30 NTU	0.40 NTU	0.72 NTU	
UV Treatment Plant				
Plant Flow Volume	In-Spec	Off-Spec	% Off-Spec	Comments
m ³	2,117,429 m ³	338 m ³	0.016%	

WATER QUALITY DISTRIBUTION TESTING

		CARO (third party) Testing	26
BMID Population:	30,000	In House Pres./Absence	12
Required Minimum # of Tests:	30	Total Tests:	38
		Total Positive Tests:	1*
*see section 6.0 for comments			

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



1.0 FLOWS - JUNE, 2025

Mission Creek provided 87% of the 2,495.97 Mega Liters used in the BMID system in June, with Well #5, Well #6 and Scotty Creek supplying the remaining 13%.

Figure 1.1 - Domestic Water System Flow

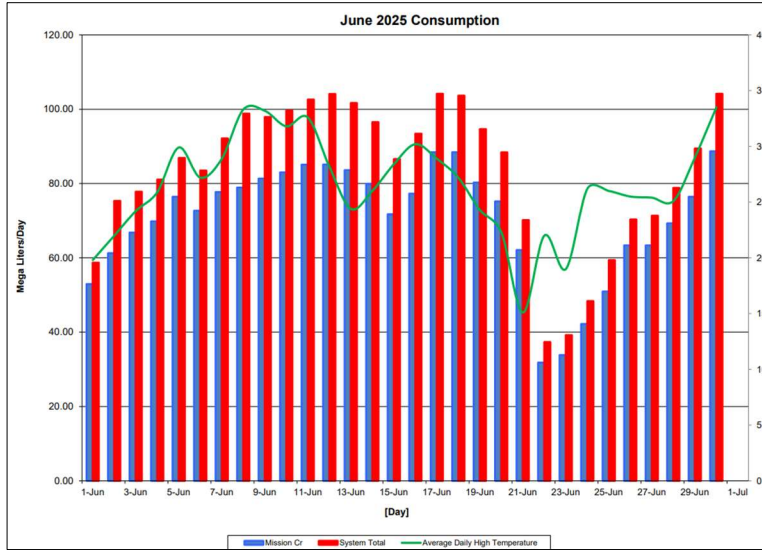


Table 1.2 - June 2025 - Daily Consumption Report

Year	Mission Cr	Well #4	Well #5	Well #6	Scotty Crk	System Total
2025	ML/Day	ML/Day	ML/Day	ML/Day	ML/Day	ML/Day
1-Jun	52.95	-	5.74	0.00	-	58.69
2-Jun	61.26	-	5.97	2.04	6.05	75.33
3-Jun	66.81	-	5.14	3.62	2.25	77.81
4-Jun	69.81	-	5.36	3.76	2.11	81.04
5-Jun	76.43	-	5.54	3.41	1.49	86.88
6-Jun	72.67	-	5.67	3.57	1.59	83.50
7-Jun	77.70	-	5.93	3.71	4.80	92.13
8-Jun	78.90	-	6.16	3.58	10.16	98.80
9-Jun	81.34	-	6.38	0.57	9.61	97.90
10-Jun	82.97	-	6.36	1.28	9.04	99.64
11-Jun	85.09	-	6.33	2.53	8.65	102.60
12-Jun	85.11	-	6.31	3.07	9.59	104.07
13-Jun	83.59	-	6.32	3.15	8.62	101.67
14-Jun	79.94	-	6.31	2.18	8.07	96.51
15-Jun	71.74	-	6.30	1.94	6.60	86.58
16-Jun	77.26	-	6.31	2.42	7.42	93.41
17-Jun	88.41	-	6.30	2.52	6.92	104.15
18-Jun	88.41	-	6.30	2.22	6.73	103.65
19-Jun	80.24	-	6.30	1.22	6.91	94.66
20-Jun	75.19	-	6.30	1.22	5.69	88.39
21-Jun	62.10	-	6.30	0.60	1.18	70.17
22-Jun	31.82	-	5.29	0.17	0.07	37.35
23-Jun	33.86	-	4.93	0.14	0.27	39.20
24-Jun	42.20	-	5.08	0.96	0.14	48.38
25-Jun	50.94	-	5.46	1.00	2.00	59.40
26-Jun	63.33	-	5.97	0.81	0.22	70.33
27-Jun	63.33	-	6.20	0.01	1.80	71.35
28-Jun	69.29	-	6.24	0.02	3.26	78.81
29-Jun	76.43	-	6.21	0.00	6.78	89.43
30-Jun	88.66	-	6.34	1.44	7.70	104.14
Totals ML	2,117.77	0.00	179.34	53.14	145.72	2,495.97
Avg's	70.59	0.00	5.98	1.77	5.82	83.20
Max	88.66	0.00	6.38	3.76	5.02	104.15
Min	31.82	0.00	4.93	0.00	0.07	37.35

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) May 2024 - June 2025

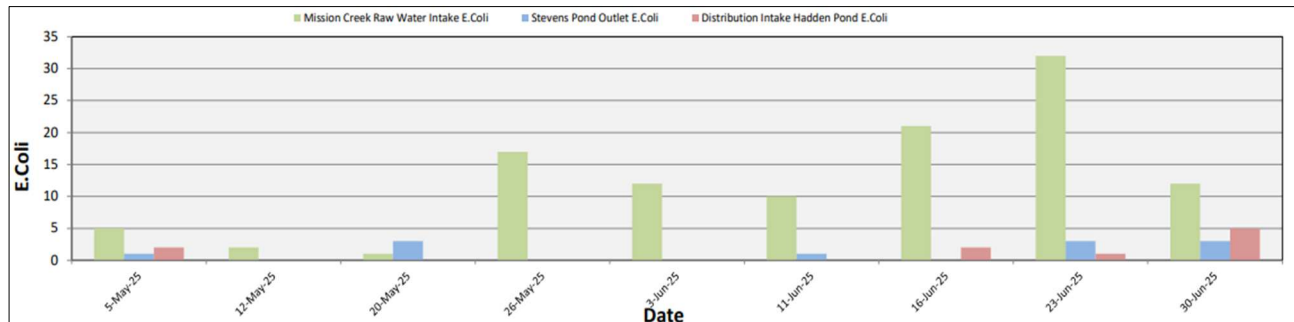


Table 2.1 - *E.Coli* Readings (CARO Labs)

Date	Mission Creek Raw Water Intake E.Coli	Stevens Pond Outlet E.Coli	Distribution Intake Hadden Pond E.Coli
5-May-25	5	1	2
12-May-25	2	0	0
20-May-25	1	3	0
26-May-25	17	0	0
3-Jun-25	12	0	0
11-Jun-25	10	1	0
16-Jun-25	21	0	2
23-Jun-25	32	3	1
30-Jun-25	12	3	5

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

Stevens Outlet (Raw) - Sampling point after exiting 142,000 m³ 1st upper balancing reservoir (Stevens Res.)

Hadden Outlet (Raw) - Sampling point after exiting 75,000 m³ 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 0.81 NTU on June 1st, 2025.

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

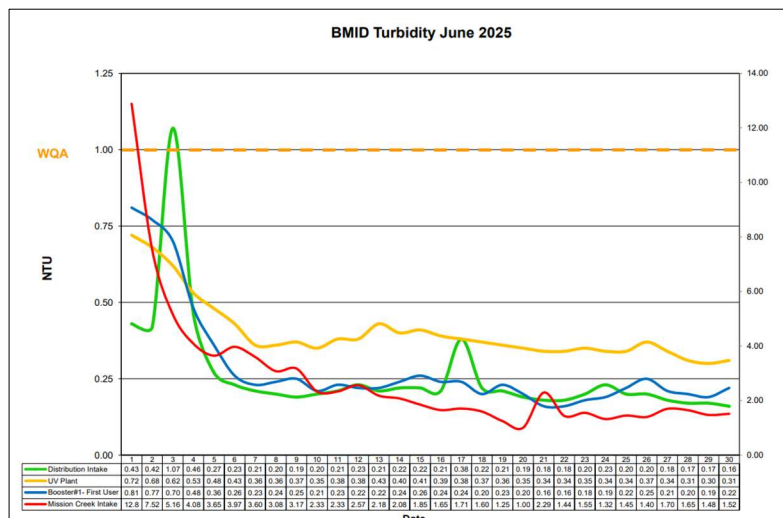


Table 3.1 - Daily Monitoring Record – Turbidity at On-Line Turbidity Analyzers

Turbidity Point Sampling for June 2025				
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	12.88	0.43	0.72	0.81
2	7.52	0.42	0.68	0.77
3	5.16	1.07	0.62	0.70
4	4.08	0.46	0.53	0.48
5	3.65	0.27	0.48	0.36
6	3.97	0.23	0.43	0.26
7	3.60	0.21	0.36	0.23
8	3.08	0.20	0.36	0.24
9	3.17	0.19	0.37	0.25
10	2.33	0.20	0.35	0.21
11	2.33	0.21	0.38	0.23
12	2.57	0.23	0.38	0.22
13	2.18	0.21	0.43	0.22
14	2.08	0.22	0.40	0.24
15	1.85	0.22	0.41	0.26
16	1.65	0.21	0.39	0.24
17	1.71	0.38	0.38	0.24
18	1.60	0.22	0.37	0.20
19	1.25	0.21	0.36	0.23
20	1.00	0.19	0.35	0.20
21	2.29	0.18	0.34	0.16
22	1.44	0.18	0.34	0.16
23	1.55	0.20	0.35	0.18
24	1.32	0.23	0.34	0.19
25	1.45	0.20	0.34	0.22
26	1.40	0.20	0.37	0.25
27	1.70	0.18	0.34	0.21
28	1.65	0.17	0.31	0.20
29	1.48	0.17	0.30	0.19
30	1.52	0.16	0.31	0.22
AVG	2.78	0.26	0.40	0.29

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 June, 2025.

Figure 4.1 - CT Trending – BMID Mission Creek Source – June 2025

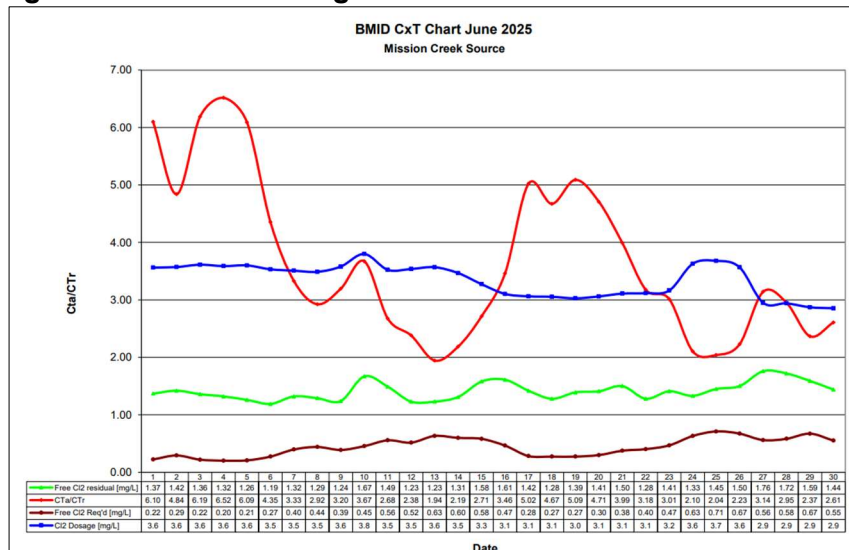


Table 4.2 - CT Table – Mission Creek Source

BMID June 2025													
Mission Creek Source													
DATE	pH	TEMP	PEAK	Free Cl2	CT	CT	CTa/CTr	Free Cl2	Cl2	VOLUME	TIME	FLOW	Dosage
June	(Average)	(Present)	FLOW	residual	achieved	req'd		Req'd	Dosage	TOTAL	[mins]	Daily Average	Average
			L/s	mg/L				[mg/L]	mg/L	Liters		L/s	KG/Day
1	7.52	12.5	783	1.57	335.2	122.8	2.73	0.58	3.10	10029827	213	613	164
2	7.54	12.6	961	1.47	255.7	121.6	2.10	0.70	2.88	10029827	174	732	182
3	7.53	12.6	946	1.42	250.8	120.5	2.08	0.68	2.98	10029827	177	770	199
4	7.48	16.1	975	1.41	241.7	92.8	2.60	0.54	3.04	10029827	171	795	209
5	7.50	14.5	1,054	1.49	236.2	105.3	2.24	0.66	3.10	10029827	159	863	231
6	7.52	15.0	1,007	1.41	234.0	101.6	2.30	0.61	3.02	10029827	166	831	217
7	7.49	15.2	1,027	1.40	227.9	99.0	2.30	0.61	3.17	10029827	163	879	241
8	7.49	15.6	1,046	1.41	225.4	96.4	2.34	0.60	3.10	10029827	160	888	238
9	7.47	16.2	1,135	1.36	200.4	91.3	2.19	0.62	3.04	10029827	147	934	246
10	7.52	17.1	1,101	1.30	197.4	86.8	2.28	0.57	3.08	10029827	152	938	250
11	7.52	17.1	1,120	1.32	196.9	87.0	2.26	0.58	3.02	10029827	149	962	251
12	7.46	17.5	1,135	1.33	196.0	82.9	2.36	0.56	2.95	10029827	147	962	246
13	7.42	17.5	1,050	1.36	216.6	81.9	2.64	0.51	2.96	10029827	159	905	232
14	7.48	17.7	1,006	1.35	224.2	82.5	2.72	0.50	3.10	10029827	166	790	212
15	7.63	17.4	934	1.37	245.3	89.0	2.75	0.50	3.03	10029827	179	762	199
16	7.74	17.5	1,055	1.37	217.1	91.9	2.36	0.58	3.04	10029827	158	879	231
17	7.74	16.8	1,149	1.42	206.7	97.0	2.13	0.67	3.19	10029827	146	977	269
18	7.83	17.4	1,076	1.32	205.0	94.9	2.16	0.61	3.08	10029827	155	909	242
19	7.79	16.7	1,070	1.35	211.0	98.6	2.14	0.63	3.05	10029827	156	854	225
20	7.72	16.8	984	1.42	241.3	96.3	2.51	0.57	3.11	10029827	170	690	185
21	7.61	17.5	668	1.77	442.9	91.3	4.85	0.36	3.00	10029827	250	366	95
22	7.48	17.3	573	1.68	489.7	87.6	5.59	0.30	3.08	10029827	291	349	93
23	7.42	17.5	518	1.62	480.5	84.1	5.71	0.26	2.97	10029827	323	389	100
24	7.37	18.1	638	1.49	416.8	78.3	5.33	0.30	2.96	10029827	262	483	124
25	7.38	17.5	726	1.59	366.1	82.7	4.43	0.36	3.04	10029827	230	568	149
26	7.67	17.4	917	1.40	255.2	90.6	2.82	0.50	2.90	10029827	182	724	181
27	7.68	16.1	949	1.61	283.5	101.6	2.79	0.58	2.91	10029827	176	649	163
28	7.68	16.2	957	1.45	253.4	99.3	2.55	0.57	2.95	10029827	175	770	196
29	7.74	16.5	981	1.30	221.4	97.7	2.27	0.57	2.94	10029827	170	853	217
30	7.72	17.3	1,093	1.47	224.8	93.5	2.40	0.61	3.04	10029827	153	975	256
Averages	7.57	16.37	954	1.44	266.6	94.9	2.87	0.54	3.03	10029827	182.7	768.64	201.32

5.0 ULTRAVIOLET DISINFECTION

Total Water Treated:	2,117,767 m ³	100.000%
On-Spec Water:	2,177,429 m ³	99.984%
Off-Spec Water:	338 m ³	0.016%

Average monthly chlorine residual before UV Treatment was 1.53 mg/L

The average monthly chlorine residual after UV treatment and re-chlorination was 1.45 mg/L.

Figure 5.1 - UV Disinfection – BMID Mission Creek Source – June 2025

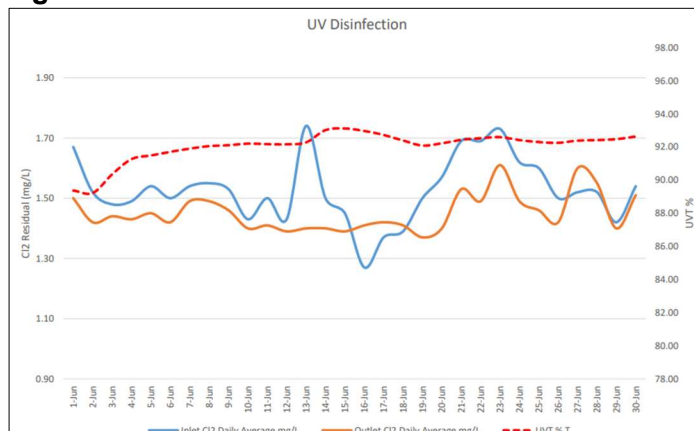


Table 5.2 - UV Disinfection Table – Mission Creek Source

	Inlet Cl2 Daily	Outlet Cl2 Daily	UVT	Turbidity	In Spec Water Volume	Off Spec Water	Off Spec % of Water
Date	mg/L	mg/L	% T	NTU	Cubic Meters	Cubic Meters	Percentage
1-Jun	1.67	1.50	89.38	0.72	52,947.1	0	0.00%
2-Jun	1.52	1.42	89.23	0.68	61,263.7	0	0.00%
3-Jun	1.48	1.44	90.36	0.62	66,813.6	0	0.00%
4-Jun	1.49	1.43	91.27	0.53	69,808.5	0	0.00%
5-Jun	1.54	1.45	91.49	0.48	76,431.1	0	0.00%
6-Jun	1.50	1.42	91.71	0.43	72,669.9	0	0.00%
7-Jun	1.54	1.49	91.91	0.36	77,695.9	0	0.00%
8-Jun	1.55	1.49	92.06	0.36	78,900.9	0	0.00%
9-Jun	1.53	1.46	92.11	0.37	81,335.9	0	0.00%
10-Jun	1.43	1.40	92.21	0.35	82,973.6	0	0.00%
11-Jun	1.50	1.41	92.18	0.38	85,090.8	0	0.00%
12-Jun	1.43	1.39	92.17	0.38	85,093.3	16.8	0.02%
13-Jun	1.74	1.40	92.28	0.43	83,571.8	16.8	0.02%
14-Jun	1.50	1.40	93.02	0.40	79,943.3	0	0.00%
15-Jun	1.45	1.39	93.12	0.41	71,739.6	0	0.00%
16-Jun	1.27	1.41	92.97	0.39	77,256.9	0	0.00%
17-Jun	1.37	1.42	92.73	0.38	88,407.1	0	0.00%
18-Jun	1.39	1.41	92.40	0.37	88,409.7	0	0.00%
19-Jun	1.50	1.37	92.09	0.36	80,235.6	0	0.00%
20-Jun	1.57	1.40	92.23	0.35	75,033.1	152.3	0.20%
21-Jun	1.69	1.53	92.44	0.34	61,943.9	152.3	0.25%
22-Jun	1.69	1.49	92.54	0.34	31,819.0	0	0.00%
23-Jun	1.73	1.61	92.60	0.35	33,858.4	0	0.00%
24-Jun	1.62	1.49	92.42	0.34	42,196.5	0	0.00%
25-Jun	1.60	1.46	92.30	0.34	50,936.0	0	0.00%
26-Jun	1.50	1.42	92.26	0.37	63,331.8	0	0.00%
27-Jun	1.52	1.60	92.39	0.34	63,333.9	0	0.00%
28-Jun	1.52	1.55	92.42	0.31	69,293.1	0	0.00%
29-Jun	1.42	1.40	92.48	0.30	76,433.1	0	0.00%
30-Jun	1.54	1.51	92.64	0.31	88,662.8	0	0.00%
Average	1.53	1.45	90.10	0.40	Total	338.2	0.016%



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
- 25 samples were found to be absent of Coliforms.
- The June 30 sample at 3976 Highway 97 North had high Total Coliform counts. This location was resampled and tested by Caro Analytical Services. Subsequent results did not find any Total Coliforms at the location. It is assumed that the positive sample was due to operator error.
- 26 samples were found to be absent of *E. Coli*.

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
3976 Hwy 97 North (25G0015-01) Matrix: Drinking Water Sampled: 2025-07-02 07:40						
Field Parameters						
Chlorine, Free	1.04	N/A	0.02	mg/L	2025-07-02	
Temperature, field	18.9	AO ≤ 15		°C	2025-07-02	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2025-07-02	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2025-07-02	
3976 Hwy 97 N (25G0015-02) Matrix: Drinking Water Sampled: 2025-07-02 07:41						
Field Parameters						
Chlorine, Free	1.04	N/A	0.02	mg/L	2025-07-02	
Temperature, field	18.9	AO ≤ 15		°C	2025-07-02	
Microbiological Parameters						
Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2025-07-02	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2025-07-02	

Results from resample on July 2nd

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

Date	2921 Belgo Rd		Booster 1		Elisson Blow-Off		Elisson School		3976 Highway 97		Prospect Reservoir		Tower Reservoir		Well #5		Well #4		Kirschner Res		Pearson School	
	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	Coliforms	E.coli	Coliforms	E.coli
5-May-25	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-25	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-May-25	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May-25	0	0	0	0							0	0	0	0	0	0	0	0	0	0	0	0
3-Jun-25			0	0			0	0	0	0			0	0	0	0			0	0	0	0
11-Jun-25	0	0	0	0							0	0	0	0	0	0			0	0	0	0
16-Jun-25			0	0		0	0	0	0	0	0	0	0	0	0	0						
23-Jun-25	0	0	0	0							0	0	0	0	0	0			0	0		
30-Jun-25			0	0		0	0	0	600	0	0	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 12 samples were found to be absent of both *Total Coliforms* and *E. Coli*.

Table 6.2 - BMID In-house Testing – Presence Absence

Location	6/4/2025				6/11/2025				6/16/2025				6/24/2025				6/30/2025			
	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.
Sylvania Cres					0.92	21.1	-	X									0.98	20.8	-	X
170 Kneller Rd					0.92	21.4	-	X									1.05	21.7	-	X
2105 Morrison Staymen Rd									1.18	18.2	-	X								
260 Campion Rd	0.24	14.8	-	X					1.07	17.8	-	X								
Fenwick Rd	0.22	15.0	-	X									0.22	18.3	-	X				
Solly Ct					0.96	20.3	-	X					0.59	20.1	-	X				
																	1.19	20.5	-	X



7.0 WELL #6 POTENTIAL POTABILITY TESTING

- BMID will take quarterly Nitrate samples on the raw water at Well #6 to determine the potential potability of the source (results should be below 45 mg/L). Results are as follows:

Well 6 Bacterial Testing	
Date	Nitrate (as N) mg/L
24-Jun-24	0.918
26-Oct-24	1.49
28-Apr-25	0.35
30-Jun-25	0.929