



MONTHLY REPORTING PERIOD - AUGUST, 2025

SUMMARY

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

WATER SUPPLY SUMMARY

Water Source	Active / Not Active	Volume (Mega Liters)	Irrigation / Domestic	Comments
Mission Ck.	Active	1,900.54	Domestic/Irrig.	Primary Water supply. Domestic and irrig. demand.
Scotty Creek	Active	249.56	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	185.92	Domestic/Irrig	Well #5 resumed operations in May 2025
Well 6	Active	34.30	Irrig. only	Well # 6 resumed operations in May 2025
August 2025	Total:	2,370.31	10 Year Average for August = 2,572.01	

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	4	4	7.5	15
Stevens Reservoir	4	1	2.25	3
Hadden Reservoir	4	1	1.25	2
Treated Water Microbiological Summary		Turbidity Summary		
Location	Low Reading	Average Reading	High Reading	Comments
Mission Creek Raw Water	0.77 NTU	1.15 NTU	2.68 NTU	
Distribution Intake	0.23 NTU	0.44 NTU	0.67 NTU	
UV Plant	0.41 NTU	0.54 NTU	0.62 NTU	
Booster # 1 (first customer)	0.26 NTU	0.38 NTU	0.45 NTU	
UV Treatment Plant				
Plant Flow Volume	In-Spec	Off-Spec	% Off-Spec	Comments
m ³	1,899,759 m ³	777.4 m ³	0.041%	

WATER QUALITY DISTRIBUTION TESTING

		CARO (third party) Testing	24
BMID Population:	30,000	In House Pres./Absence	9
Required Minimum # of Tests:	30	Total Tests:	33
		Total Positive Tests:	0

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



1.0 FLOWS - AUGUST, 2025

Mission Creek provided 80% of the 2,370 Mega Liters used in the BMID system in August, with Well #5, Well #6 and Scotty Creek supplying the remaining 20%.

Figure 1.1 - Domestic Water System Flow

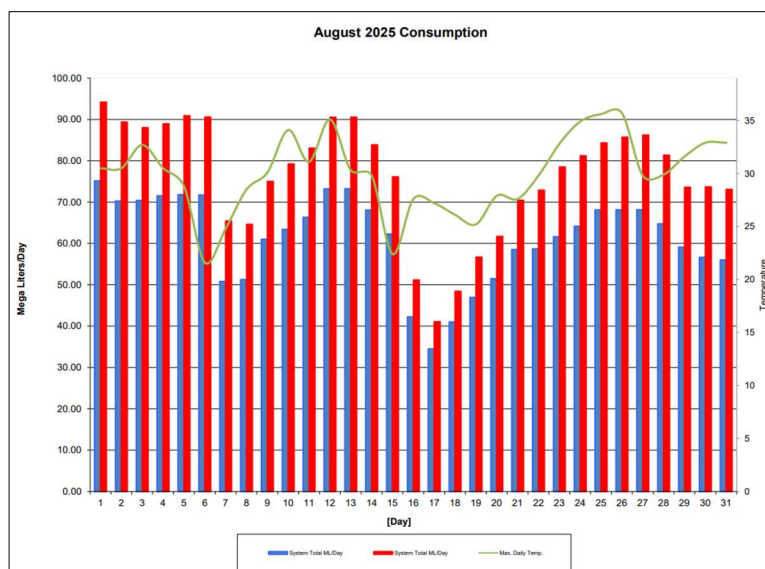


Table 1.2 - August 2025 - Daily Consumption Report

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-Aug	75.13	0	5.91	3.03	10.12	94.19
2-Aug	70.27	0	6.08	2.61	10.42	89.38
3-Aug	70.42	0	6.24	0.80	10.56	88.02
4-Aug	71.52	0	6.35	0.00	11.05	88.92
5-Aug	71.79	0	6.34	1.86	10.93	90.92
6-Aug	71.71	0	6.21	2.00	10.66	90.58
7-Aug	50.78	0	5.80	0.79	8.08	65.45
8-Aug	51.25	0	5.93	0.00	7.42	64.61
9-Aug	61.01	0	6.18	0.00	7.80	74.99
10-Aug	63.39	0	6.22	0.00	9.59	79.20
11-Aug	66.32	0	6.34	0.00	10.40	83.05
12-Aug	73.23	0	6.37	0.00	10.93	90.52
13-Aug	73.23	0	6.39	0.00	10.93	90.55
14-Aug	68.08	0	6.36	0.00	9.40	83.84
15-Aug	62.28	0	6.24	0.00	7.58	76.10
16-Aug	42.22	0	5.46	0.00	3.48	51.16
17-Aug	34.48	0	4.72	0.00	1.85	41.06
18-Aug	41.01	0	5.01	0.00	2.41	48.43
19-Aug	46.96	0	5.54	0.00	4.20	56.70
20-Aug	51.48	0	5.74	0.00	4.47	61.69
21-Aug	58.54	0	5.76	0.00	6.13	70.44
22-Aug	58.69	0	6.03	0.00	8.15	72.87
23-Aug	61.64	0	6.27	2.00	8.56	78.48
24-Aug	64.17	0	6.12	3.51	7.43	81.22
25-Aug	68.09	0	5.88	3.65	6.69	84.32
26-Aug	68.15	0	5.91	3.64	8.02	85.72
27-Aug	68.15	0	6.16	3.63	8.26	86.21
28-Aug	64.76	0	5.80	3.62	7.16	81.34
29-Aug	59.09	0	6.05	0.96	7.52	73.62
30-Aug	56.64	0	6.27	1.09	9.64	73.65
31-Aug	56.03	0	6.24	1.11	9.69	73.07
Totals ML	1,900.54	0.00	185.92	34.30	249.56	2,370.31
Avg's	61.31	0.00	6.00	1.11	8.05	76.46
Max	75.13	0.00	6.39	3.65	11.05	94.19
Min	34.48	0.00	4.72	0.00	1.85	41.06

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) July 2024 - August 2025

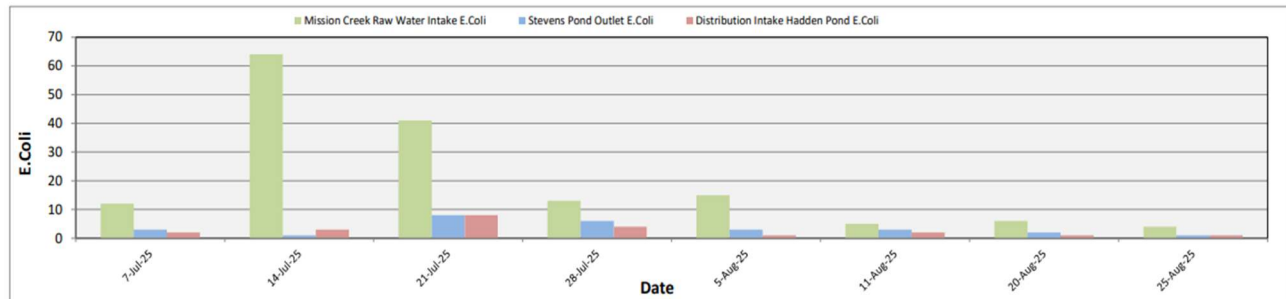


Table 2.1 - *E.Coli* Readings (CARO Labs)

Date	Mission Creek Raw Water Intake E.Coli	Stevens Pond Outlet E.Coli	Distribution Intake Hadden Pond E.Coli
7-Jul-25	12	3	2
14-Jul-25	64	1	3
21-Jul-25	41	8	8
28-Jul-25	13	6	4
5-Aug-25	15	3	1
11-Aug-25	5	3	2
20-Aug-25	6	2	1
25-Aug-25	4	1	1

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 0.45 NTU on August 14, 2025.

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

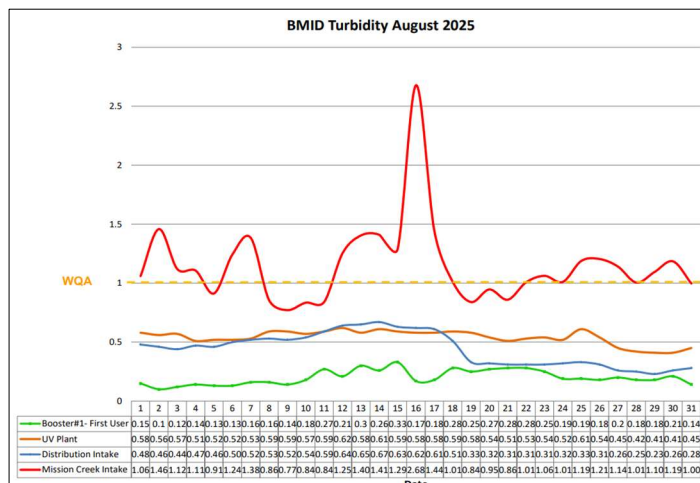


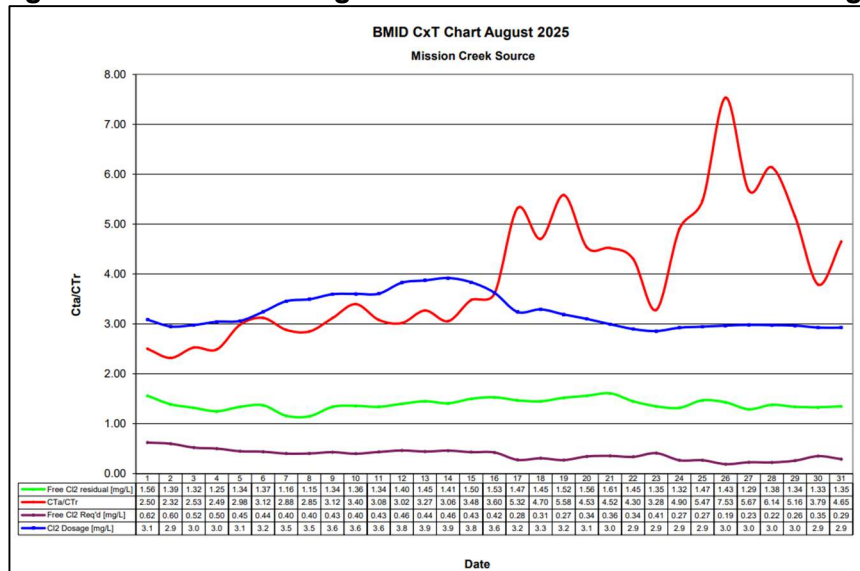
Table 3.1 - Daily Monitoring Record – Turbidity at On-Line Turbidity Analyzers

Turbidity Point Sampling for August 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	1.06	0.48	0.58	0.43
2	1.46	0.46	0.56	0.41
3	1.12	0.44	0.57	0.42
4	1.11	0.47	0.51	0.37
5	0.91	0.46	0.52	0.36
6	1.24	0.50	0.52	0.36
7	1.38	0.52	0.53	0.38
8	0.86	0.53	0.59	0.44
9	0.77	0.52	0.59	0.43
10	0.84	0.54	0.57	0.42
11	0.84	0.59	0.59	0.42
12	1.25	0.64	0.62	0.43
13	1.40	0.65	0.58	0.40
14	1.41	0.67	0.61	0.45
15	1.29	0.63	0.59	0.43
16	2.68	0.62	0.58	0.39
17	1.44	0.61	0.58	0.32
18	1.01	0.51	0.59	0.40
19	0.84	0.33	0.58	0.42
20	0.95	0.32	0.54	0.42
21	0.86	0.31	0.51	0.39
22	1.01	0.31	0.53	0.36
23	1.06	0.31	0.54	0.38
24	1.01	0.32	0.52	0.36
25	1.19	0.33	0.61	0.39
26	1.21	0.31	0.54	0.38
27	1.14	0.26	0.45	0.30
28	1.01	0.25	0.42	0.28
29	1.10	0.23	0.41	0.26
30	1.19	0.26	0.41	0.26
31	1.00	0.28	0.45	0.29
AVG	1.15	0.44	0.54	0.38

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 August, 2025.

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



CTa – CT achieved
CTr – CT Required

The minimum CT that BMID achieved was 3.05 X that of what was required

Table 4.2 - CT Table – Mission Creek Source

BMID August 2025 Mission Creek Source													
DATE	pH (Average)	TEMP (Present)	PEAK FLOW L/s	Free Cl2 residual mg/L	CT achieved	CT req'd	CTa/CTr	Free Cl2 Req'd [mg/L]	Cl2 Dosage mg/L	VOLUME TOTAL Liters	TIME [mins]	FLOW Daily Average L/s	Dosage Average KG/Day
August													
1	7.31	20.1	972	1.26	216.7	65.0	3.33	0.38	3.83	10029827	172	798	264.2
2	7.24	20.0	868	1.33	256.2	64.3	3.99	0.33	3.96	10029827	193	660	226.0
3	7.22	20.4	1,035	1.37	221.2	62.3	3.55	0.39	4.11	10029827	161	795	282.3
4	7.23	20.2	976	1.44	246.7	63.9	3.86	0.37	4.06	10029827	171	805	282.7
5	7.23	20.0	1,037	1.42	229.0	64.7	3.54	0.40	3.99	10029827	161	806	278.0
6	7.16	19.9	903	1.36	251.8	63.0	3.99	0.34	3.88	10029827	185	582	194.9
7	7.15	19.1	657	1.47	374.1	67.2	5.57	0.26	3.83	10029827	254	460	152.3
8	7.17	18.9	734	1.39	316.7	68.0	4.65	0.30	3.83	10029827	228	582	192.9
9	7.23	18.7	816	1.18	241.7	68.8	3.51	0.34	3.86	10029827	205	704	234.9
10	7.24	19.1	844	1.15	227.9	66.9	3.40	0.34	3.88	10029827	198	723	242.5
11	7.30	19.6	878	1.29	245.7	67.3	3.65	0.35	3.97	10029827	190	747	256.3
12	7.37	20.0	1,043	1.47	235.7	68.5	3.44	0.43	4.04	10029827	160	839	293.2
13	7.38	20.1	940	1.37	243.5	67.5	3.61	0.38	3.98	10029827	178	770	264.7
14	7.36	19.9	931	1.12	201.1	65.9	3.05	0.37	3.93	10029827	180	713	241.8
15	7.32	20.0	931	1.17	210.0	65.0	3.23	0.36	3.92	10029827	179	481	163.0
16	7.29	19.6	643	1.33	345.8	67.3	5.14	0.26	3.89	10029827	260	382	128.3
17	7.30	19.4	507	1.30	428.6	68.3	6.28	0.21	3.89	10029827	330	387	130.1
18	7.24	19.4	619	1.28	345.5	66.6	5.18	0.25	3.89	10029827	270	460	154.3
19	7.24	19.2	729	1.26	288.9	67.4	4.29	0.29	3.89	10029827	229	538	180.9
20	7.24	18.7	755	1.39	307.6	70.8	4.34	0.32	3.82	10029827	221	584	192.8
21	7.29	19.2	769	1.30	282.7	69.0	4.10	0.32	3.77	10029827	217	660	215.3
22	7.29	18.0	800	1.36	284.2	75.5	3.77	0.36	3.80	10029827	209	661	216.9
23	7.30	17.9	876	1.41	251.9	76.7	3.28	0.40	3.82	10029827	191	705	232.6
24	7.30	18.6	847	1.32	276.4	72.3	3.82	0.37	3.83	10029827	197	726	240.6
25	7.30	18.4	886	1.40	264.0	74.0	3.57	0.39	3.91	10029827	189	766	258.9
26	7.28	18.1	984	1.42	241.2	75.2	3.21	0.44	3.93	10029827	170	781	265.0
27	7.23	18.3	913	1.40	256.4	72.6	3.53	0.40	3.90	10029827	183	732	246.7
28	7.22	18.4	865	1.58	305.2	73.2	4.17	0.38	3.86	10029827	193	670	223.7
29	7.21	18.1	870	1.63	313.1	74.8	4.19	0.39	3.85	10029827	192	641	213.3
30	7.24	18.3	832	1.50	301.4	73.6	4.09	0.37	3.79	10029827	201	628	205.9
31	7.27	18.1	814	1.27	260.7	73.6	3.54	0.36	0.34	10029827	205	677	190.9
Averages	7.26	19.19	848	1.36	273.7	68.9	3.98	0.35	3.90	10029827	202.3	660.11	222.50

5.0 ULTRAVIOLET DISINFECTION

Total Water Treated:	1,900,536 m ³	100.000%
On-Spec Water:	1,899,759 m ³	99.959%
Off-Spec Water:	774 m ³	0.041%

Average monthly chlorine residual before UV Treatment was 1.49 mg/L

The average monthly chlorine residual after UV treatment and re-chlorination was 1.46 mg/L.

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

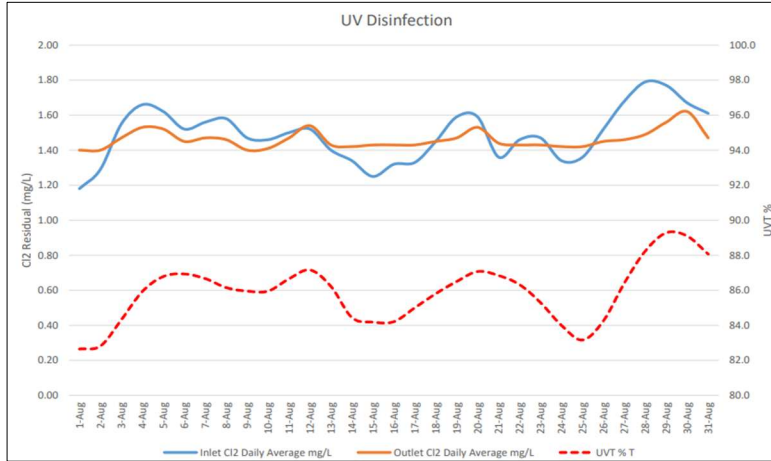


Table 5.2 - UV Disinfection Table – Mission Creek Source

Date	Inlet Cl ₂ Daily mg/L	Outlet Cl ₂ Daily mg/L	UVT % T	Turbidity NTU	In Spec Water Volume Cubic Meters	Off Spec Water Cubic Meters	Off Spec % of Water Percentage
1-Aug	1.18	1.40	82.7	0.58	75,130	0	0.00%
2-Aug	1.29	1.40	82.8	0.56	70,266	0	0.00%
3-Aug	1.55	1.47	84.3	0.57	70,422	0	0.00%
4-Aug	1.66	1.53	85.9	0.51	71,362	160	0.22%
5-Aug	1.62	1.52	86.8	0.52	71,629	160	0.22%
6-Aug	1.52	1.45	86.9	0.52	71,631	83	0.12%
7-Aug	1.56	1.47	86.7	0.53	50,714	62	0.12%
8-Aug	1.58	1.46	86.2	0.59	51,250	0	0.00%
9-Aug	1.47	1.40	86.0	0.59	61,014	0	0.00%
10-Aug	1.46	1.41	86.0	0.57	63,392	0	0.00%
11-Aug	1.50	1.47	86.7	0.59	66,318	0	0.00%
12-Aug	1.52	1.54	87.2	0.62	73,228	0	0.00%
13-Aug	1.40	1.43	86.2	0.58	73,231	0	0.00%
14-Aug	1.34	1.42	84.4	0.61	68,081	0	0.00%
15-Aug	1.25	1.43	84.2	0.59	62,232	52	0.08%
16-Aug	1.32	1.43	84.2	0.58	42,113	107	0.25%
17-Aug	1.33	1.43	85.0	0.58	34,379	105	0.30%
18-Aug	1.45	1.45	85.8	0.59	40,964	49	0.12%
19-Aug	1.59	1.47	86.5	0.58	46,965	0	0.00%
20-Aug	1.59	1.53	87.1	0.54	51,482	0	0.00%
21-Aug	1.36	1.44	86.8	0.51	58,542	0	0.00%
22-Aug	1.46	1.43	86.3	0.53	58,689	0	0.00%
23-Aug	1.47	1.43	85.3	0.54	61,644	0	0.00%
24-Aug	1.34	1.42	84.0	0.52	64,170	0	0.00%
25-Aug	1.36	1.42	83.2	0.61	68,095	0	0.00%
26-Aug	1.52	1.45	84.3	0.54	68,149	0	0.00%
27-Aug	1.68	1.46	86.4	0.45	68,152	0	0.00%
28-Aug	1.79	1.49	88.2	0.42	64,760	0	0.00%
29-Aug	1.77	1.56	89.3	0.41	59,087	0	0.00%
30-Aug	1.67	1.62	89.1	0.41	56,643	0	0.00%
31-Aug	1.61	1.47	88.1	0.45	56,026	0	0.00%
Average	1.49	1.46	85.89	0.54	Total 1,899,759.00	777.4	0.041%



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
- 24 samples were found to be absent of Coliforms.
- 24 samples were found to be absent of *E.Coli*.

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

Date	2921 Belgo Rd		Booster 1		Elison Blow-Off		Elison School		3976 Highway 97		Prospect Reservoir		Tower Reservoir		Well #5		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
2-Jul-25									0	0					0	0	0	0	0	0
2-Jul-25									0	0					0	0	0	0	0	0
7-Jul-25	0	0	0	0							0	0			0	0	0	0	0	0
14-Jul-25			0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
21-Jul-25	0	0	0	0							0	0			0	0	0	0	0	0
28-Jul-25			0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
29-Jul-25															0	0				
5-Aug-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Aug-25			0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0
20-Aug-25	0	0	0	0							0	0			0	0	0	0	0	0
25-Aug-25			0	0	0	0	0	0	0	0			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 9 samples were found to be absent of both *Total Coliforms* and *E.Coli*.

Table 6.2 - BMID In-house Testing – Presence Absence

Location	8/5/2025				8/11/2025				8/20/2025				8/25/2025			
	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.	Cl2	Temp.	Pres.	Abs.
Sylvania Cres					0.53	26.7	-	X								
170 Kneller Rd					0.81	25.1	-	X								
2105 Morrison									1.04	20.3	-	X				
Staymen Rd									0.96	19.9	-	X				
260 Campion Rd	0.04	21.4	-	X									0.00	21.8	-	X
Fenwick Rd	0.35	24.7	-	X									0.44	22.4	-	X
Solly Ct					0.93	26.3	-	X								



7.0 WELL #6 POTENTIAL POTABILITY TESTING

Table 7.1 - Well 6 Bacterial Testing

BMID will take monthly bacterial samples on the raw water at Well #6 to determine the potential potability of the source. Results are as follows:

Well 6 Bacterial Testing		
Date	Total Coliforms	E.Coli Coliforms
24-Jun-24	0	0
29-Jul-24	0	0
26-Aug-24	0	0
28-Oct-24	0	0
25-Nov-24	0	0
31-Dec-24	0	0
27-Jan-25	0	0
24-Feb-25	0	0
24-Mar-25	0	0
28-Apr-25	0	0
26-May-25	0	0
7-Jul-25	0	0
28-Jul-25	0	0
25-Aug-25	0	0