



MONTHLY REPORTING PERIOD - FEBRUARY, 2023

SUMMARY

This document provides a summary of the water quality information collected by BMID in February 2023. Documentation and figures are provided on the following pages to support this submission.

WATER SUPPLY & USAGE SUMMARY

1. Water usage data for February is as follows:

| Source | Total (US Gals) | Total (Mega Litres) |
|--------------------------------|-----------------|---------------------|
| Mission Creek | 57,754,102 | 218.6 |
| Well 4 | 2,752,387 | 10.42 |
| Well 5 | 0 | 0 |
| Well 6 (Irrigation Only) | 0 | 0 |
| Scotty Creek (Irrigation Only) | 0 | 0 |
| Total | 60,506,489 | 229.02 |

2. BMID's control gates on the high-elevation reservoirs are closed for the winter. The gates will remain closed until summer of 2023;
3. BMID's Scotty Creek source supplying irrigation water to the north-end of the service area, provided water from May 27th, 2022 to September 9th 2022 when irrigation demands in the north-end reduced from peak flows experienced earlier in summer. The Scotty Creek source will resume service in the summer of 2023;
4. Well #4, used as a primary source for domestic water in the north-end of the distribution system, was in operation throughout the month of February;
5. Well #5, used as the primary domestic water source in the north-end of the system for both irrigation and domestic consumption during the summer months, was placed in stand-by mode on October 12th 2022, and will remain in stand-by until flows increase in the spring of 2023;
6. Well #6, which supplies water to the north-end irrigation distribution system, ran from May 26 to September 25, 2022. Well #6 will remain in stand-by mode until irrigation demands increase in the spring/summer of 2023;
7. The UV plant experienced higher than normal flows on February 15-16. Flows were high on these days due to BMID crews refilling a transmission main after planned maintenance works, and not as a result of increased consumption;
8. A portion of the BMID's transmission main west of the Mission Creek Intake and east of the tunnel is located on an unstable slope. Slope movement continues to be monitored. It is currently stable and is not moving;

WATER QUALITY SUMMARY

1. The WTP ran for 14 days in the middle of February due to increased turbidity in Mission Creek raw water resulting from increased temperatures. The WTP was then placed back in stand-by mode and will remain so until turbidity again rises later in the spring;
2. Raw water turbidity levels in Mission Creek peaked at 2.93 NTU (average daily turbidity) on February 8th. Average daily raw water turbidity for February was 1.46 NTU at the Mission Creek intake;
3. The highest turbidity level at the Distribution Intake (end of Hadden Reservoir) was 0.68 NTU on February 21st, 2023. Average settled water turbidity for February was 0.49 NTU at the Distribution Intake at the lower end of Hadden Reservoir;
4. The highest turbidity level at the first customer (Booster #1) was 0.51 NTU on February 11th. Average monthly turbidity at the first customer was 0.44 NTU;
5. The highest turbidity daily average at the UV plant was 0.83 NTU on February 16th. This spike in turbidity is a result of increased flows at the UV plant associated with maintenance works. Average monthly turbidity at the UV plant was 0.44 NTU throughout February;
6. BMID's Ultraviolet Treatment Facility treated 218,623 m³ of water, none of which was "Off-Spec" (0.00%);
7. Regarding microbiological readings, the Mission Creek watershed was frozen over throughout the month of February resulting in a greater groundwater influence on the raw water quality. There was a notable drop in *E.Coli* and *Total Coliform* levels from prior months readings;
8. *E.Coli* levels at Mission Creek's Point-of-Diversion (creek intake prior to WTP) had low counts for February. The February 6th sample had the peak monthly count of 3 coliforms. The average monthly *E.Coli* was 1.5, based on 4 samples;
9. *E.Coli* levels in the raw water at the water distribution system intake at the east end of Hadden Reservoir, immediately prior to disinfection, had zero counts on all 4 samples. Reduction in *E.Coli* levels is due to the settling of particles as water passes through Stevens and Hadden Reservoirs;
10. No *E.Coli* or *Total Coliforms* were found in treated water in the distribution system through third-party analysis. In addition, zero positive samples were detected by BMID's in-house presence/absence testing throughout February;

1.0 FLOWS - FEBRUARY, 2023

The Maximum Daily Flow was on February 16th, at 3,273,249 US gallons (12.39 ML)

The Minimum Daily Flow was on February 24th, at 2,001,472 US gallons (7.58 ML)

Mission Creek provided just over 95% of domestic flow supplied in February.

Figure 1.1 - Domestic Water System Flow

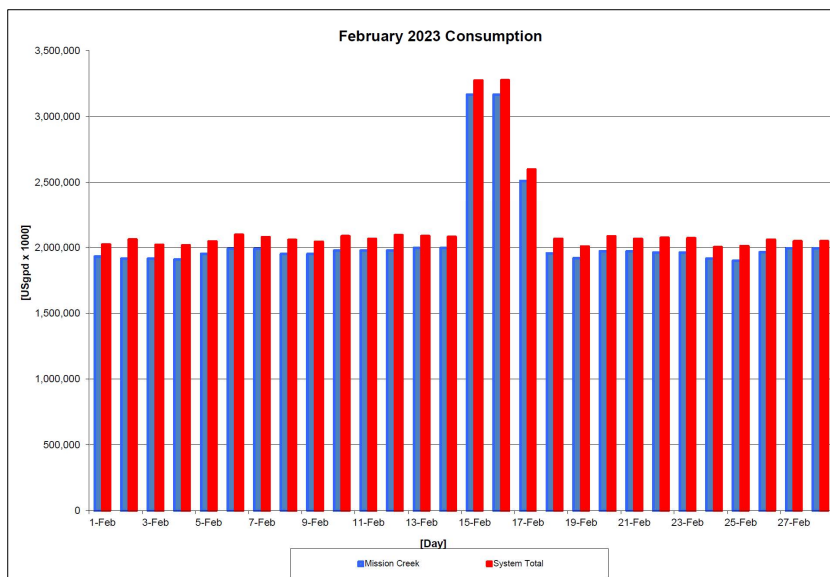


Table 1.2 - February 2023 - Daily Consumption Report

| Year | Mission Creek | Well #4 | Well #5 | Well #6 | System Total | System Total |
|--------------|---------------|-----------|---------|---------|--------------|--------------|
| 2023 | Usgpd | Usgpd | Usgpd | Usgpd | Usgpd | ML/Day |
| 1-Feb | 1,929,539 | 92,195 | 0 | 0 | 2,021,734 | 7.65 |
| 2-Feb | 1,914,402 | 145,294 | 0 | 0 | 2,059,695 | 7.80 |
| 3-Feb | 1,914,481 | 104,347 | 0 | 0 | 2,018,828 | 7.64 |
| 4-Feb | 1,908,326 | 106,725 | 0 | 0 | 2,015,050 | 7.63 |
| 5-Feb | 1,950,038 | 95,101 | 0 | 0 | 2,045,140 | 7.74 |
| 6-Feb | 1,989,083 | 106,725 | 0 | 0 | 2,095,808 | 7.93 |
| 7-Feb | 1,989,162 | 87,969 | 0 | 0 | 2,077,131 | 7.86 |
| 8-Feb | 1,950,197 | 106,196 | 0 | 0 | 2,056,393 | 7.78 |
| 9-Feb | 1,950,276 | 92,195 | 0 | 0 | 2,042,472 | 7.73 |
| 10-Feb | 1,976,271 | 108,574 | 0 | 0 | 2,084,845 | 7.89 |
| 11-Feb | 1,976,324 | 87,704 | 0 | 0 | 2,064,028 | 7.81 |
| 12-Feb | 1,978,041 | 113,593 | 0 | 0 | 2,091,634 | 7.92 |
| 13-Feb | 1,995,106 | 90,610 | 0 | 0 | 2,085,717 | 7.89 |
| 14-Feb | 1,995,185 | 83,742 | 0 | 0 | 2,078,927 | 7.87 |
| 15-Feb | 3,165,124 | 107,517 | 0 | 0 | 3,272,641 | 12.39 |
| 16-Feb | 3,165,203 | 108,046 | 0 | 0 | 3,273,249 | 12.39 |
| 17-Feb | 2,512,487 | 86,119 | 0 | 0 | 2,598,606 | 9.84 |
| 18-Feb | 1,954,767 | 110,159 | 0 | 0 | 2,064,926 | 7.82 |
| 19-Feb | 1,917,255 | 89,818 | 0 | 0 | 2,007,073 | 7.60 |
| 20-Feb | 1,969,931 | 113,593 | 0 | 0 | 2,083,524 | 7.89 |
| 21-Feb | 1,970,010 | 94,309 | 0 | 0 | 2,064,319 | 7.81 |
| 22-Feb | 1,961,583 | 112,008 | 0 | 0 | 2,073,591 | 7.85 |
| 23-Feb | 1,961,636 | 108,574 | 0 | 0 | 2,070,209 | 7.84 |
| 24-Feb | 1,915,881 | 85,591 | 0 | 0 | 2,001,472 | 7.58 |
| 25-Feb | 1,898,921 | 109,895 | 0 | 0 | 2,008,816 | 7.60 |
| 26-Feb | 1,962,534 | 95,630 | 0 | 0 | 2,058,163 | 7.79 |
| 27-Feb | 1,991,144 | 55,212 | 0 | 0 | 2,046,355 | 7.75 |
| 28-Feb | 1,991,196 | 54,947 | 0 | 0 | 2,046,144 | 7.74 |
| Totals Usgpd | 57,754,102 | 2,752,387 | 0 | 0 | 60,506,489 | 229.02 |
| Totals ML | 218.60 | 10.42 | 0.00 | 0.00 | 229 | |
| Avg's | 2,062,646 | 7.81 | | | 2,160,946 | 8.18 |
| Max | 3,165,203 | 11.98 | | | 3,273,249 | 12.39 |
| Min | 1,898,921 | 7.19 | | | 2,001,472 | 7.58 |

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 Distribution Intake's Point of Disinfection and at the Mission Creek raw water Point of Diversion and at Stevens Pond outlet (point halfway between WTP Outlet and Distribution Intake).

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

The watershed is frozen over with snow cover and no overland flow to the creeks in the watershed. The creek flow at this time of year is highly influenced by groundwater contributions. For this reason, coliform and *E.Coli* counts are lower than in prior months.

Figure 2.1 - Raw Water *E.Coli* Readings (CARO Lab results) January 2023 - February 2023

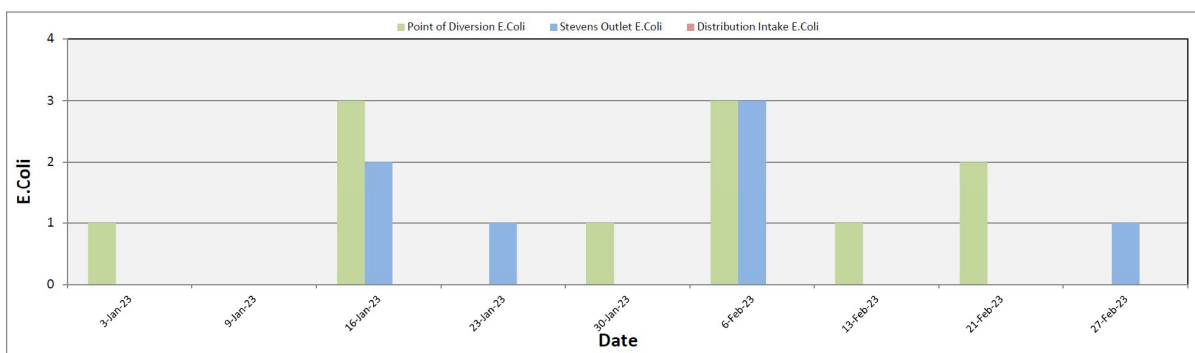


Table 2.1 - *E.Coli* Readings (CARO Labs)

| Date | Point of Diversion E.Coli | Stevens Outlet E.Coli | Distribution Intake E.Coli |
|-----------|---------------------------|-----------------------|----------------------------|
| 3-Jan-23 | 1 | 0 | 0 |
| 9-Jan-23 | 0 | 0 | 0 |
| 16-Jan-23 | 3 | 2 | 0 |
| 23-Jan-23 | 0 | 1 | 0 |
| 30-Jan-23 | 1 | 0 | 0 |
| 6-Feb-23 | 3 | 3 | 0 |
| 13-Feb-23 | 1 | 0 | 0 |
| 21-Feb-23 | 2 | 0 | 0 |
| 27-Feb-23 | 0 | 1 | 0 |

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

Through February 2023, turbidity for the Mission Creek source was measured at Booster Station No. 1 on Gallagher’s Road, which is the approximate location of the first-customer. The highest turbidity level recorded at this location was 0.51 NTU on February 11th, 2023. The lowest turbidity level was 0.34 NTU and the average turbidity was 0.44 NTU.

The distribution intake is where the water leaves Hadden Reservoir and enters a closed conduit. Turbidity levels are greatly reduced through the settling process as Mission Creek treated water makes its way through the reservoirs.

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

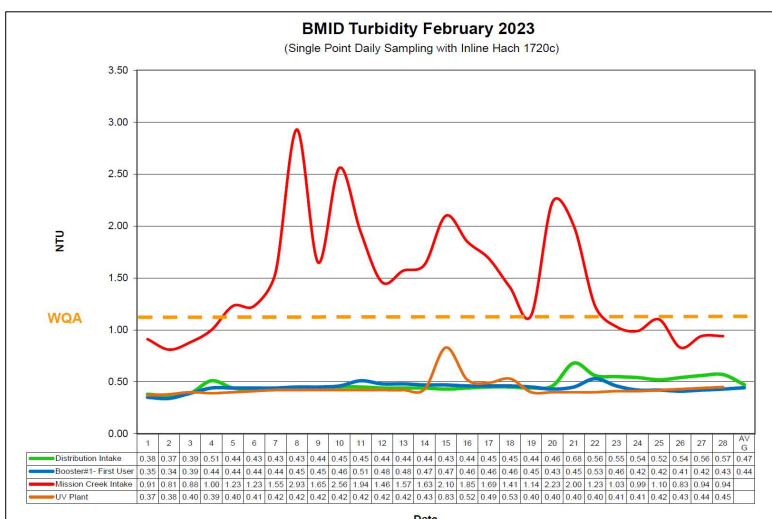


Table 3.1 - Daily Monitoring Record – Turbidity at On-Line Turbidity Analysers

| Turbidity Point Sampling for February 2023 | | | | |
|--|----------------------|---------------------|-----------------------|---------------------|
| Date | Mission Creek Intake | Distribution Intake | Booster#1- First User | UV Plant |
| | Daily Average [NTU] | Daily Average NTU | Daily Average NTU | Daily Average [NTU] |
| 1 | 0.91 | 0.38 | 0.35 | 0.37 |
| 2 | 0.81 | 0.37 | 0.34 | 0.38 |
| 3 | 0.88 | 0.39 | 0.39 | 0.40 |
| 4 | 1.00 | 0.51 | 0.44 | 0.39 |
| 5 | 1.23 | 0.44 | 0.44 | 0.40 |
| 6 | 1.23 | 0.43 | 0.44 | 0.41 |
| 7 | 1.55 | 0.43 | 0.44 | 0.42 |
| 8 | 2.93 | 0.43 | 0.45 | 0.42 |
| 9 | 1.65 | 0.44 | 0.45 | 0.42 |
| 10 | 2.56 | 0.45 | 0.46 | 0.42 |
| 11 | 1.94 | 0.45 | 0.51 | 0.42 |
| 12 | 1.46 | 0.44 | 0.48 | 0.42 |
| 13 | 1.57 | 0.44 | 0.48 | 0.42 |
| 14 | 1.63 | 0.44 | 0.47 | 0.43 |
| 15 | 2.10 | 0.43 | 0.47 | 0.83 |
| 16 | 1.85 | 0.44 | 0.46 | 0.52 |
| 17 | 1.69 | 0.45 | 0.46 | 0.49 |
| 18 | 1.41 | 0.45 | 0.46 | 0.53 |
| 19 | 1.14 | 0.44 | 0.45 | 0.40 |
| 20 | 2.23 | 0.46 | 0.43 | 0.40 |
| 21 | 2.00 | 0.68 | 0.45 | 0.40 |
| 22 | 1.23 | 0.56 | 0.53 | 0.40 |
| 23 | 1.03 | 0.55 | 0.46 | 0.41 |
| 24 | 0.99 | 0.54 | 0.42 | 0.41 |
| 25 | 1.10 | 0.52 | 0.42 | 0.42 |
| 26 | 0.83 | 0.54 | 0.41 | 0.43 |
| 27 | 0.94 | 0.56 | 0.42 | 0.44 |
| 28 | 0.94 | 0.57 | 0.43 | 0.45 |
| AVG | 1.46 | 0.49 | 0.44 | 0.44 |

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 February, 2023.

Figure 4.1 - CT Trending – BMID Mission Creek Source – February 2023

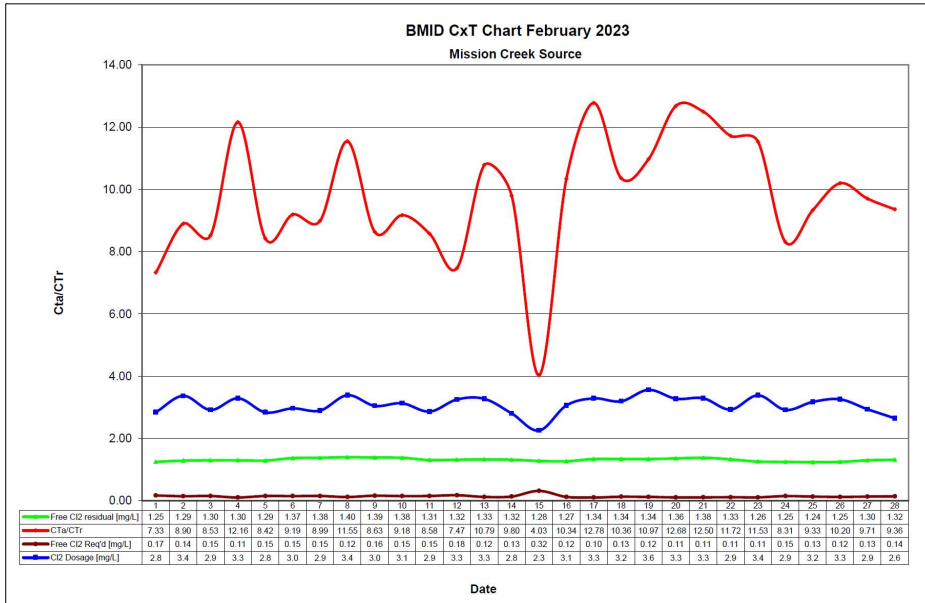


Table 4.2 - CT Table – Mission Creek Source

| BMID February 2023 | | | | | | | | | | | | | |
|----------------------|-----------|-----------|---------|----------|----------|-------|---------|----------|--------|---------|--------|---------------|------------|
| Mission Creek Source | | | | | | | | | | | | | |
| DATE | pH | TEMP | PEAK | Free Cl2 | CT | CT | CTa/CTr | Free Cl2 | Cl2 | VOLUME | TIME | FLOW | CL2 DOSAGE |
| | (Average) | (Present) | FLOW | residual | achieved | req'd | | Req'd | Dosage | TOTAL | [mins] | Daily Average | Average |
| February | | [°C] | [Usgpm] | [mg/L] | | | | [mg/L] | [mg/L] | [USgal] | | US Gallons | [PPD] |
| 1 | 7.72 | 7.1 | 2439 | 1.25 | 1357.7 | 185.2 | 7.33 | 0.17 | 2.8 | 2649600 | 1086 | 1471 | 50 |
| 2 | 7.87 | 7.8 | 2057 | 1.29 | 1661.3 | 186.7 | 8.90 | 0.14 | 3.4 | 2649600 | 1288 | 1255 | 51 |
| 3 | 7.83 | 9.5 | 2466 | 1.30 | 1396.6 | 163.8 | 8.53 | 0.15 | 2.9 | 2649600 | 1074 | 1446 | 51 |
| 4 | 7.83 | 10.0 | 1790 | 1.30 | 1924.8 | 158.2 | 12.16 | 0.11 | 3.3 | 2649600 | 1481 | 1257 | 50 |
| 5 | 7.83 | 10.4 | 2639 | 1.29 | 1295.1 | 153.7 | 8.42 | 0.15 | 2.8 | 2649600 | 1004 | 1508 | 52 |
| 6 | 7.83 | 9.4 | 2374 | 1.37 | 1528.8 | 166.3 | 9.19 | 0.15 | 3.0 | 2649600 | 1116 | 1474 | 53 |
| 7 | 7.75 | 9.5 | 2528 | 1.38 | 1446.3 | 160.8 | 8.99 | 0.15 | 2.9 | 2649600 | 1048 | 1473 | 51 |
| 8 | 7.70 | 8.9 | 1946 | 1.40 | 1906.5 | 165.1 | 11.55 | 0.12 | 3.4 | 2649600 | 1362 | 1269 | 52 |
| 9 | 7.70 | 8.0 | 2430 | 1.39 | 1515.7 | 175.5 | 8.63 | 0.16 | 3.0 | 2649600 | 1090 | 1397 | 51 |
| 10 | 7.70 | 7.9 | 2257 | 1.38 | 1620.0 | 176.6 | 9.18 | 0.15 | 3.1 | 2649600 | 1174 | 1371 | 52 |
| 11 | 7.70 | 7.5 | 2246 | 1.31 | 1545.4 | 180.1 | 8.58 | 0.15 | 2.9 | 2649600 | 1180 | 1493 | 51 |
| 12 | 7.70 | 8.1 | 2706 | 1.32 | 1292.3 | 173.0 | 7.47 | 0.18 | 3.3 | 2649600 | 979 | 1341 | 52 |
| 13 | 7.70 | 10.0 | 2152 | 1.33 | 1637.2 | 151.8 | 10.79 | 0.12 | 3.3 | 2649600 | 1231 | 1344 | 53 |
| 14 | 7.63 | 9.7 | 2363 | 1.32 | 1479.9 | 151.1 | 9.80 | 0.13 | 2.8 | 2649600 | 1121 | 1534 | 52 |
| 15 | 7.52 | 8.9 | 5503 | 1.28 | 616.3 | 152.8 | 4.03 | 0.32 | 2.3 | 2649600 | 481 | 1932 | 52 |
| 16 | 7.52 | 10.1 | 2317 | 1.27 | 1452.6 | 140.5 | 10.34 | 0.12 | 3.1 | 2649600 | 1144 | 1406 | 52 |
| 17 | 7.52 | 10.8 | 2059 | 1.34 | 1724.4 | 134.9 | 12.78 | 0.10 | 3.3 | 2649600 | 1287 | 1310 | 52 |
| 18 | 7.52 | 10.7 | 2522 | 1.34 | 1407.9 | 135.8 | 10.36 | 0.13 | 3.2 | 2649600 | 1051 | 1312 | 50 |
| 19 | 7.52 | 10.7 | 2382 | 1.34 | 1490.3 | 135.8 | 10.97 | 0.12 | 3.6 | 2649600 | 1112 | 1188 | 51 |
| 20 | 7.52 | 11.1 | 2145 | 1.36 | 1679.7 | 132.4 | 12.68 | 0.11 | 3.3 | 2649600 | 1235 | 1326 | 52 |
| 21 | 7.52 | 11.3 | 2235 | 1.38 | 1636.1 | 130.9 | 12.50 | 0.11 | 3.3 | 2649600 | 1186 | 1302 | 52 |
| 22 | 7.56 | 9.4 | 1996 | 1.33 | 1765.9 | 150.6 | 11.72 | 0.11 | 2.9 | 2649600 | 1328 | 1474 | 52 |
| 23 | 7.63 | 8.0 | 1715 | 1.26 | 1946.6 | 168.8 | 11.53 | 0.11 | 3.4 | 2649600 | 1545 | 1250 | 51 |
| 24 | 7.63 | 7.1 | 2221 | 1.25 | 1491.5 | 179.4 | 8.31 | 0.15 | 2.9 | 2649600 | 1193 | 1433 | 50 |
| 25 | 7.63 | 7.9 | 2076 | 1.24 | 1582.3 | 169.5 | 9.33 | 0.13 | 3.2 | 2649600 | 1276 | 1312 | 50 |
| 26 | 7.63 | 9.3 | 2108 | 1.25 | 1571.1 | 154.0 | 10.20 | 0.12 | 3.3 | 2649600 | 1257 | 1328 | 52 |
| 27 | 7.63 | 9.1 | 2259 | 1.30 | 1525.0 | 157.1 | 9.71 | 0.13 | 2.9 | 2649600 | 1173 | 1489 | 53 |
| 28 | 7.63 | 10.7 | 2651 | 1.32 | 1319.3 | 140.9 | 9.36 | 0.14 | 2.6 | 2649600 | 999 | 1644 | 52 |
| Averages | 7.66 | 9.2 | 2378 | 1.32 | 1529.2 | 158.3 | 9.76 | 0.14 | 3.1 | | 1161 | 1405 | 51 |

5.0 ULTRAVIOLET DISINFECTION

| | | |
|----------------------|--------------------------|---------|
| Total Water Treated: | 218,623.1 m ³ | 100.00% |
| On-Spec Water: | 218,623.1 m ³ | 100.00% |
| Off-Spec Water: | 0.0 m ³ | 0.00% |

Average monthly chlorine residual before UV Treatment was 1.35 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 – February 2023

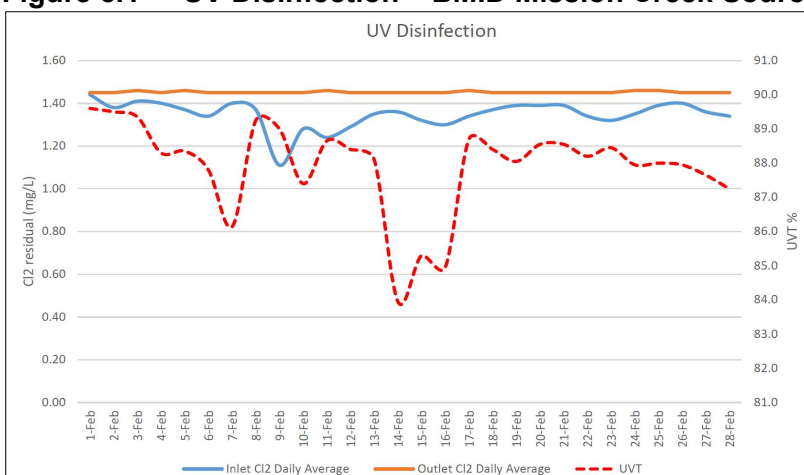


Table 5.2 - UV Disinfection Table – Mission Creek Source

| | Inlet Cl2 Daily Average | Outlet Cl2 Daily Average | UVT | Turbidity | | In Spec Water Volume | Off Spec Water |
|---------|-------------------------|--------------------------|------|-----------|-------|----------------------|----------------|
| Date | mg/L | mg/L | % T | NTU | | Cubic Meters | Cubic Meters |
| 1-Feb | 1.44 | 1.45 | 89.6 | 0.37 | | 7304.1 | 0 |
| 2-Feb | 1.38 | 1.45 | 89.5 | 0.38 | | 7246.8 | 0 |
| 3-Feb | 1.41 | 1.46 | 89.4 | 0.40 | | 7247.1 | 0 |
| 4-Feb | 1.40 | 1.45 | 88.3 | 0.39 | | 7223.8 | 0 |
| 5-Feb | 1.37 | 1.46 | 88.4 | 0.40 | | 7381.7 | 0 |
| 6-Feb | 1.34 | 1.45 | 87.8 | 0.41 | | 7529.5 | 0 |
| 7-Feb | 1.40 | 1.45 | 86.1 | 0.42 | | 7529.8 | 0 |
| 8-Feb | 1.37 | 1.45 | 89.3 | 0.42 | | 7382.3 | 0 |
| 9-Feb | 1.11 | 1.45 | 89.0 | 0.42 | | 7382.6 | 0 |
| 10-Feb | 1.28 | 1.45 | 87.4 | 0.42 | | 7481 | 0 |
| 11-Feb | 1.24 | 1.46 | 88.7 | 0.42 | | 7481.2 | 0 |
| 12-Feb | 1.29 | 1.45 | 88.4 | 0.42 | | 7487.7 | 0 |
| 13-Feb | 1.35 | 1.45 | 88.1 | 0.42 | | 7552.3 | 0 |
| 14-Feb | 1.36 | 1.45 | 84.0 | 0.43 | | 7552.6 | 0 |
| 15-Feb | 1.32 | 1.45 | 85.3 | 0.83 | | 11981.3 | 0 |
| 16-Feb | 1.30 | 1.45 | 85.0 | 0.52 | | 11981.6 | 0 |
| 17-Feb | 1.34 | 1.46 | 88.7 | 0.49 | | 9510.8 | 0 |
| 18-Feb | 1.37 | 1.45 | 88.4 | 0.53 | | 7399.6 | 0 |
| 19-Feb | 1.39 | 1.45 | 88.1 | 0.40 | | 7257.6 | 0 |
| 20-Feb | 1.39 | 1.45 | 88.6 | 0.40 | | 7457 | 0 |
| 21-Feb | 1.39 | 1.45 | 88.6 | 0.40 | | 7457.3 | 0 |
| 22-Feb | 1.34 | 1.45 | 88.2 | 0.40 | | 7425.4 | 0 |
| 23-Feb | 1.32 | 1.45 | 88.5 | 0.41 | | 7425.6 | 0 |
| 24-Feb | 1.35 | 1.46 | 88.0 | 0.41 | | 7252.4 | 0 |
| 25-Feb | 1.39 | 1.46 | 88.0 | 0.42 | | 7188.2 | 0 |
| 26-Feb | 1.40 | 1.45 | 88.0 | 0.43 | | 7429 | 0 |
| 27-Feb | 1.36 | 1.45 | 87.7 | 0.44 | | 7537.3 | 0 |
| 28-Feb | 1.34 | 1.45 | 87.3 | 0.45 | | 7537.5 | 0 |
| Average | 1.35 | 1.45 | 87.9 | | Total | 218623.1 | 0 |

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 | 2021 Belgo Rd | | Booster 1 | | Elison Blow-Off | | Elison School | | 3976 Highway 97 | | Prospect Reservoir | | Tower Reservoir | | 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 |
| 3-Jan-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9-Jan-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16-Jan-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23-Jan-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30-Jan-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6-Feb-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13-Feb-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21-Feb-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27-Feb-23 | 0 | 0 | 0 | 0 | 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 samples were found to be absent of both *Total Coliforms* and *E. Coli*.

Table 6.2 - BMID In-house Testing – Presence Absence

| Location | 2/6/2023 | | | | 2/13/2023 | | | | 2/21/2023 | | | | 2/27/2023 | | | |
|--------------------------|----------|-------|-------|------|-----------|-------|-------|------|-----------|-------|-------|------|-----------|-------|-------|------|
| | Cl2 | Temp. | Pres. | Abs. | Cl2 | Temp. | Pres. | Abs. | Cl2 | Temp. | Pres. | Abs. | Cl2 | Temp. | Pres. | Abs. |
| Sylvania Cres | 0.91 | 10.8 | - | X | | | | | | | | | 0.83 | 10.6 | - | X |
| 170 Kneller Rd | 0.86 | 11.6 | - | X | | | | | | | | | 0.85 | 9.6 | - | X |
| 2105 Morrison Staymen Rd | | | | | | | | | 0.50 | 8.8 | - | X | | | | |
| 260 Campion Rd | | | | | | | | | 0.83 | 10.6 | - | X | | | | |
| Fenwick Rd | | | | | 0.83 | 12.8 | - | X | | | | | | | | |
| Solly Ct | 0.99 | 11.4 | - | X | 0.77 | 11.4 | - | X | | | | | 0.93 | 8.8 | - | X |

- BMID Population = 28,000

RECOMMENDED TESTS

- Recommended number of samples per month = 28
(as per Guide for Canadian Drinking Water Quality)

ACTUAL TESTS

- Total tests by BMID staff (presence/absence) = 10
- Total tests sampled by BMID and tested by Caro Labs 24
- Total tests sampled in BMID treated distribution system = 34
- 0 Positive *E. Coli* and Total Coliform Samples