



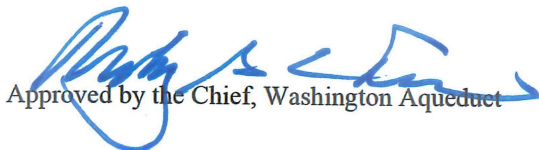
## Washington Aqueduct

## U.S. ARMY Corps of Engineers

# Annual Report of Water Analysis 2020

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# WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS

## ANNUAL REPORT OF WATER ANALYSIS (2020)

### Potomac River Raw Water Supply

|     | Miscellaneous Physical Parameters |            |              |                  |                  |              |             |                |                      |           | Inorganic Ions    |         |          |          |             |             |                      |             |         | Microorganisms |           |                               |                                       |
|-----|-----------------------------------|------------|--------------|------------------|------------------|--------------|-------------|----------------|----------------------|-----------|-------------------|---------|----------|----------|-------------|-------------|----------------------|-------------|---------|----------------|-----------|-------------------------------|---------------------------------------|
|     | pH                                | ALKALINITY | CONDUCTIVITY | DISSOLVED SOLIDS | SUSPENDED SOLIDS | TOTAL SOLIDS | TEMPERATURE | TOTAL HARDNESS | TOTAL ORGANIC CARBON | TURBIDITY | TOTAL AMMONIA - N | BROMIDE | CHLORIDE | FLUORIDE | NITRATE - N | NITRITE - N | ORTHOPHOSPHATE - PO4 | PERCHLORATE | SULFATE | TOTAL COLIFORM | E. COLI   | GIARDIA<br>Great Falls Intake | CRYPTOSPORIDIUM<br>Great Falls Intake |
|     |                                   | ppm        | uS/cm        | ppm              | ppm              | ppm          | °F          | ppm            | ppm                  | NTU       | ppm               | ppm     | ppm      | ppm      | ppm         | ppm         | ppm                  | ppb         | ppm     | MPN/100mL      | MPN/100mL | cysts/L                       | Oocysts/L                             |
| Jan | 8.0                               | 66         | 296          | 203              | 55               | 258          | 48          | 105            | 2.9                  | 13        | ND                | ND      | 31       | ND       | 2.1         | ND          | ND                   | 0.3         | 22      | 5515           | 204       | 0.47                          | 0.19                                  |
| Feb | 8.0                               | 68         | 268          | 133              | 21               | 154          | 49          | 104            | 2.2                  | 6         | 0.05              | ND      | 26       | ND       | 2.1         | ND          | ND                   | ND          | 23      | 833            | 78        | 0.09                          | 0.19                                  |
| Mar | 8.0                               | 75         | 279          | 154              | 3                | 157          | 57          | 111            | 2.6                  | 5         | ND                | ND      | 30       | ND       | 1.7         | ND          | ND                   | 0.3         | 24      | 471            | 25        | 0.28                          | ND                                    |
| Apr | 7.8                               | 63         | 236          | 132              | 101              | 233          | 61          | 97             | 2.5                  | 8         | ---               | ND      | 21       | 0.11     | 1.2         | ND          | ND                   | 0.2         | 19      | 3568           | 834       | 0.09                          | ND                                    |
| May | 7.9                               | 72         | 266          | 144              | 29               | 173          | 67          | 104            | 2.9                  | 9         | ND                | ND      | 19       | ND       | 1.3         | ND          | ND                   | 0.2         | 22      | 1773           | 38        | ND                            | ND                                    |
| Jun | 7.8                               | 78         | 290          | 162              | 29               | 191          | 80          | 107            | 2.5                  | 7         | ND                | ND      | 21       | ND       | 1.1         | ND          | ND                   | 0.2         | 22      | 18159          | 547       | ND                            | ND                                    |
| Jul | 8.1                               | 92         | 315          | 213              | ND               | 213          | 86          | 132            | 2.6                  | 6         | ND                | 0.04    | 23       | 0.11     | 0.8         | ND          | ND                   | 0.3         | 32      | 34508          | 88        | ND                            | ND                                    |
| Aug | 7.9                               | 93         | 321          | 239              | 17               | 256          | 80          | 133            | 3.5                  | 7         | ND                | ND      | 23       | 0.12     | 1.0         | ND          | ND                   | ND          | 29      | 38448          | 543       | ND                            | ND                                    |
| Sep | 8.2                               | 96         | 357          | 199              | 2                | 201          | 73          | 141            | 2.8                  | 5         | ND                | 0.04    | 27       | 0.12     | 0.8         | ND          | ND                   | ND          | 34      | 7230           | 60        | ND                            | ND                                    |
| Oct | 8.3                               | 104        | 388          | 227              | ND               | 227          | 64          | 157            | 2.2                  | 3         | ND                | 0.05    | 32       | 0.15     | 0.7         | ND          | ND                   | 0.2         | 45      | 1600           | 25        | 0.28                          | ND                                    |
| Nov | 8.0                               | 96         | 350          | 168              | 14               | 182          | 53          | 142            | 3.0                  | 6         | ND                | ND      | 29       | 0.12     | 1.0         | ND          | ND                   | 0.2         | 37      | 5108           | 404       | 0.28                          | ND                                    |
| Dec | 7.8                               | 70         | 273          | 164              | 16               | 180          | 44          | 109            | 3.2                  | 12        | ND                | ND      | 29       | ND       | 1.6         | ND          | ND                   | 0.2         | 21      | 9498           | 505       | ---                           | ---                                   |

|     | Metals   |          |         |        |           |         |         |          |        |        |      |      |         |           |           |            |        |          |        |        |           |          |         |         |      |
|-----|----------|----------|---------|--------|-----------|---------|---------|----------|--------|--------|------|------|---------|-----------|-----------|------------|--------|----------|--------|--------|-----------|----------|---------|---------|------|
|     | ALUMINUM | ANTIMONY | ARSENIC | BARIUM | BERYLLIUM | CADMIUM | CALCIUM | CHROMIUM | COBALT | COPPER | IRON | LEAD | LITHIUM | MAGNESIUM | MANGANESE | MOLYBDENUM | NICKEL | SELENIUM | SILVER | SODIUM | STRONTIUM | THALLIUM | THORIUM | URANIUM | ZINC |
|     | ppb      | ppb      | ppb     | ppb    | ppb       | ppb     | ppm     | ppb      | ppb    | ppb    | ppb  | ppb  | ppb     | ppm       | ppb       | ppb        | ppb    | ppb      | ppb    | ppm    | ppb       | ppb      | ppb     | ppb     | ppb  |
| Jan | 379      | ND       | ND      | 33     | ND        | ND      | 30      | ND       | 0.5    | 2.2    | 356  | 0.7  | 1.4     | 7         | 54        | 0.6        | 1.2    | ND       | ND     | 16     | 104       | ND       | ND      | 0.2     | 5.9  |
| Feb | 211      | ND       | ND      | 38     | ND        | ND      | 30      | ND       | 0.3    | 1.8    | 319  | 0.4  | 1.8     | 7         | 38        | ND         | 1.1    | ND       | ND     | 13     | 131       | ND       | ND      | ND      | 5.0  |
| Mar | 143      | ND       | ND      | 34     | ND        | ND      | 32      | ND       | 0.2    | 1.4    | 235  | 0.3  | 1.7     | 8         | 35        | ND         | 0.9    | ND       | ND     | 14     | 138       | ND       | ND      | ND      | ND   |
| Apr | 432      | ND       | ND      | 35     | ND        | ND      | 27      | ND       | 0.6    | 2.1    | 582  | 0.7  | 1.8     | 7         | 62        | ND         | 1.3    | ND       | ND     | 12     | 117       | ND       | ND      | ND      | 6.0  |
| May | 438      | ND       | ND      | 43     | ND        | ND      | 30      | ND       | 1.2    | 2.4    | 765  | 1.4  | 2.4     | 7         | 87        | ND         | 2.4    | ND       | ND     | 10     | 97        | ND       | ND      | 0.2     | 8.7  |
| Jun | 148      | ND       | 0.6     | 40     | ND        | ND      | 32      | ND       | 0.3    | 1.8    | 227  | 0.3  | 2.3     | 7         | 31        | ND         | 1.0    | ND       | ND     | 11     | 151       | ND       | ND      | ND      | ND   |
| Jul | 123      | ND       | 0.6     | 42     | ND        | ND      | 38      | ND       | 0.3    | 2.4    | 565  | 0.4  | 2.1     | 9         | 34        | 0.7        | 1.1    | ND       | ND     | 14     | 148       | ND       | ND      | 0.3     | 3.4  |
| Aug | 543      | ND       | 1.5     | 42     | ND        | 0.2     | 38      | ND       | 0.8    | 6.3    | 1004 | 3.2  | 2.7     | 8         | 55        | 0.7        | 2.3    | ND       | ND     | 13     | 148       | ND       | 0.5     | 0.3     | 7.6  |
| Sep | 212      | ND       | 0.6     | 43     | ND        | ND      | 40      | ND       | 0.4    | 1.7    | 334  | 0.3  | 2.2     | 10        | 57        | 0.8        | 1.1    | ND       | ND     | 16     | 172       | ND       | ND      | 0.2     | ND   |
| Oct | 120      | ND       | ND      | 40     | ND        | ND      | 44      | ND       | ND     | 1.5    | 97   | ND   | 3.4     | 11        | 21        | 1.0        | 0.9    | ND       | ND     | 19     | 243       | ND       | ND      | 0.4     | ND   |
| Nov | 145      | ND       | ND      | 46     | ND        | ND      | 41      | ND       | ND     | 2.1    | 202  | 0.3  | 3.3     | 10        | 41        | 1.0        | 1.1    | ND       | ND     | 15     | 239       | ND       | ND      | 0.3     | ND   |
| Dec | 291      | ND       | ND      | 37     | ND        | ND      | 32      | ND       | 0.4    | 2.7    | 608  | 0.6  | 1.8     | 7         | 68        | 0.7        | 1.3    | ND       | ND     | 14     | 144       | ND       | ND      | 0.2     | 6.1  |

ppm = Parts Per Million

ppb = Parts Per Billion

ND = Not Detected

MPN/100mL = Most Probable Number per 100 milliliters

NTU = Nephelometric Turbidity Units

uS/cm = microSiemens per centimeter

"---" = No Analysis Required



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| EPA MCL*                                        | Inorganic Ions    |         |          |          |             |             |                      |             |         | Metals   |          |         |        |           |         |         |          |        |        |      |      |         |           |           |         |            |        |           |          |        |        |           |          |         |         |          |      |     |  |
|-------------------------------------------------|-------------------|---------|----------|----------|-------------|-------------|----------------------|-------------|---------|----------|----------|---------|--------|-----------|---------|---------|----------|--------|--------|------|------|---------|-----------|-----------|---------|------------|--------|-----------|----------|--------|--------|-----------|----------|---------|---------|----------|------|-----|--|
|                                                 | TOTAL AMMONIA - N | BROMIDE | CHLORIDE | FLUORIDE | NITRATE - N | NITRITE - N | ORTHOPHOSPHATE - PO4 | PERCHLORATE | SULFATE | ALUMINUM | ANTIMONY | ARSENIC | BARIUM | BERYLLIUM | CADMIUM | CALCIUM | CHROMIUM | COBALT | COPPER | IRON | LEAD | LITHIUM | MAGNESIUM | MANGANESE | MERCURY | MOLYBDENUM | NICKEL | POTASSIUM | SELENIUM | SILVER | SODIUM | STRONTIUM | THALLIUM | THORIUM | URANIUM | VANADIUM | ZINC |     |  |
|                                                 |                   |         |          | 4        | 10          | 1           |                      |             |         |          | 6        | 10      | 2000   | 4         | 5       |         | 100      |        |        |      |      |         |           |           | 2       |            |        |           |          | 50     |        |           |          |         | 2       |          | 30   |     |  |
| Units                                           | ppm               | ppm     | ppm      | ppm      | ppm         | ppm         | ppm                  | ppb         | ppm     | ppb      | ppb      | ppb     | ppb    | ppb       | ppb     | ppm     | ppb      | ppb    | ppb    | ppb  | ppb  | ppb     | ppm       | ppb       | ppb     | ppb        | ppb    | ppb       | ppm      | ppb    | ppb    | ppm       | ppb      | ppb     | ppb     | ppb      | ppb  | ppb |  |
| Dalecarlia Water Treatment Plant Finished Water |                   |         |          |          |             |             |                      |             |         |          |          |         |        |           |         |         |          |        |        |      |      |         |           |           |         |            |        |           |          |        |        |           |          |         |         |          |      |     |  |
| Jan                                             | 0.8               | ND      | 37       | 0.6      | 2.1         | ND          | 2.6                  | 0.3         | 37      | 18       | ND       | ND      | 32     | ND        | ND      | 35      | ND       | ND     | 1.2    | ND   | ND   | 1.4     | 7         | 0.7       | ND      | ND         | 0.6    | 2.6       | ND       | ND     | 21     | 136       | ND       | ND      | ND      | ND       | ND   | 0.8 |  |
| Feb                                             | 0.8               | ND      | 27       | 0.6      | 2.0         | ND          | 2.6                  | 0.3         | 37      | 20       | ND       | ND      | 31     | ND        | ND      | 33      | ND       | ND     | 0.9    | ND   | ND   | 1.3     | 7         | 0.6       | ND      | ND         | 0.6    | ---       | ND       | ND     | 16     | 125       | ND       | ND      | ND      | ND       | ND   | 0.8 |  |
| Mar                                             | 0.7               | ND      | 32       | 0.6      | 1.7         | ND          | 2.4                  | 0.3         | 34      | 19       | ND       | ND      | 32     | ND        | ND      | 36      | ND       | ND     | 1.0    | ND   | ND   | 1.3     | 7         | 0.6       | ND      | ND         | 0.6    | ---       | ND       | ND     | 20     | 132       | ND       | ND      | ND      | ND       | ND   | 0.9 |  |
| Apr                                             | ---               | ND      | 25       | 0.7      | 1.3         | ND          | 2.5                  | 0.2         | 33      | 14       | ND       | ND      | 29     | ND        | ND      | 31      | ND       | ND     | 1.0    | ND   | ND   | 1.7     | 7         | 0.7       | ND      | ND         | ND     | 1.9       | ND       | ND     | 15     | 120       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| May                                             | 0.8               | ND      | 23       | 0.7      | 1.3         | ND          | 2.5                  | ND          | 34      | 26       | ND       | ND      | 27     | ND        | ND      | 31      | ND       | ND     | 0.7    | ND   | ND   | 1.8     | 6         | 0.8       | ND      | ND         | 0.5    | ---       | ND       | ND     | 16     | 94        | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Jun                                             | 0.9               | ND      | 26       | 0.7      | 1.1         | ND          | 2.4                  | ND          | 39      | 47       | ND       | ND      | 37     | ND        | ND      | 37      | ND       | ND     | 1.0    | ND   | ND   | 1.9     | 7         | 0.7       | ND      | ND         | 0.5    | ---       | ND       | ND     | 19     | 164       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Jul                                             | 0.8               | ND      | 29       | 0.7      | 0.9         | ND          | 2.4                  | 0.9         | 46      | 41       | ND       | ND      | 41     | ND        | ND      | 41      | ND       | ND     | ND     | ND   | ND   | 2.0     | 9         | 0.7       | ND      | 0.6        | 0.6    | 2.7       | ND       | ND     | 20     | 161       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Aug                                             | 0.9               | ND      | 29       | 0.7      | 0.9         | ND          | 2.5                  | ND          | 48      | 69       | ND       | 0.4     | 45     | ND        | ND      | 41      | ND       | ND     | 1.2    | ND   | ND   | 2.1     | 8         | 1.1       | ND      | 1.0        | 0.6    | ---       | ND       | ND     | 20     | 219       | ND       | ND      | ND      | 1.0      | ND   | ND  |  |
| Sep                                             | 0.9               | ND      | 31       | 0.7      | 0.9         | ND          | 2.4                  | 0.2         | 43      | 44       | ND       | 0.3     | 34     | ND        | ND      | 42      | ND       | ND     | 1.1    | ND   | ND   | 1.7     | 9         | 0.9       | ND      | 0.8        | 0.6    | ---       | ND       | ND     | 20     | 176       | ND       | ND      | ND      | 0.7      | ND   | ND  |  |
| Oct                                             | 0.8               | ND      | 35       | 0.7      | 0.8         | ND          | 2.4                  | 0.2         | 55      | 71       | ND       | 0.2     | 39     | ND        | ND      | 47      | ND       | ND     | 1.2    | ND   | ND   | 1.7     | 10        | 1.0       | ND      | 0.9        | 0.7    | 3.2       | ND       | ND     | 23     | 234       | ND       | ND      | ND      | ND       | ND   | 0.5 |  |
| Nov                                             | 0.8               | ND      | 33       | 0.7      | 1.0         | ND          | 2.5                  | 0.2         | 52      | 18       | ND       | ND      | 37     | ND        | ND      | 43      | ND       | ND     | 1.6    | ND   | ND   | 1.9     | 10        | 0.8       | ND      | 0.8        | 0.8    | ---       | ND       | ND     | 22     | 200       | ND       | ND      | ND      | ND       | ND   | 0.7 |  |
| Dec                                             | 0.8               | ND      | 33       | 0.6      | 1.4         | ND          | 2.5                  | 0.2         | 42      | 25       | ND       | ND      | 36     | ND        | ND      | 36      | ND       | ND     | 1.3    | ND   | ND   | 1.6     | 7         | 0.8       | ND      | 0.6        | 0.7    | ---       | ND       | ND     | 25     | 195       | ND       | ND      | ND      | ND       | ND   | 0.9 |  |
| McMillan Water Treatment Plant Finished Water   |                   |         |          |          |             |             |                      |             |         |          |          |         |        |           |         |         |          |        |        |      |      |         |           |           |         |            |        |           |          |        |        |           |          |         |         |          |      |     |  |
| Jan                                             | 0.7               | ND      | 35       | 0.7      | 2.2         | ND          | 2.5                  | 0.3         | 38      | 13       | ND       | ND      | 31     | ND        | ND      | 31      | ND       | ND     | 4.5    | ND   | ND   | 1.2     | 8         | 0.2       | ND      | ND         | 0.6    | 2.6       | ND       | ND     | 21     | 134       | ND       | ND      | ND      | ND       | ND   | 0.8 |  |
| Feb                                             | -                 | -       | -        | -        | -           | -           | -                    | -           | -       | -        | -        | -       | -      | -         | -       | -       | -        | -      | -      | -    | -    | -       | -         | -         | -       | -          | -      | -         | -        | -      | -      | -         | -        | -       | -       | -        | -    |     |  |
| Mar                                             | 0.7               | ND      | 35       | 0.7      | 1.6         | ND          | 2.4                  | 0.3         | 35      | 26       | ND       | ND      | 32     | ND        | ND      | 32      | ND       | ND     | 6.3    | ND   | ND   | 1.2     | 7         | ND        | ND      | 0.5        | 0.7    | ---       | ND       | ND     | 19     | 134       | ND       | ND      | ND      | ND       | ND   | 0.8 |  |
| Apr                                             | ---               | ND      | 27       | 0.7      | 1.2         | ND          | 2.5                  | 0.3         | 34      | 29       | ND       | ND      | 31     | ND        | ND      | 25      | ND       | ND     | 3.9    | ND   | ND   | 1.5     | 6         | ND        | ND      | ND         | 0.6    | 2.0       | ND       | ND     | 17     | 137       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| May                                             | 0.8               | ND      | 23       | 0.7      | 1.2         | ND          | 2.5                  | ND          | 34      | 24       | ND       | ND      | 27     | ND        | ND      | 24      | ND       | ND     | 9.9    | ND   | ND   | 1.7     | 6         | ND        | ND      | ND         | 0.6    | ---       | ND       | ND     | 16     | 106       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Jun                                             | 0.9               | ND      | 28       | 0.7      | 1.0         | ND          | 2.5                  | 0.2         | 37      | 61       | ND       | ND      | 38     | ND        | ND      | 31      | ND       | ND     | 10.2   | ND   | ND   | 1.8     | 7         | 0.3       | ND      | ND         | ND     | ---       | ND       | ND     | 18     | 164       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Jul                                             | 0.9               | ND      | 30       | 0.7      | 0.9         | ND          | 2.5                  | 0.5         | 46      | 25       | ND       | ND      | 38     | ND        | ND      | 31      | ND       | ND     | 10.1   | ND   | ND   | 2.1     | 9         | 0.3       | ND      | ND         | 0.5    | 2.6       | ND       | ND     | 20     | 136       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Aug                                             | 0.9               | ND      | 31       | 0.7      | 0.9         | ND          | 2.5                  | 0.7         | 49      | 43       | ND       | 0.3     | 45     | ND        | ND      | 35      | ND       | ND     | 9.7    | ND   | ND   | 1.9     | 7         | 0.5       | ND      | 1.0        | ND     | ---       | ND       | ND     | 21     | 207       | ND       | ND      | ND      | 0.7      | ND   | ND  |  |
| Sep                                             | 0.9               | ND      | 31       | 0.7      | 0.8         | ND          | 2.5                  | 0.3         | 45      | 37       | ND       | 0.2     | 36     | ND        | ND      | 33      | ND       | ND     | 7.7    | ND   | ND   | 1.7     | 8         | ND        | ND      | 0.7        | ND     | ---       | ND       | ND     | 20     | 180       | ND       | ND      | ND      | 0.5      | ND   | ND  |  |
| Oct                                             | 0.9               | ND      | 36       | 0.7      | 0.8         | ND          | 2.5                  | 0.2         | 55      | 62       | ND       | 0.2     | 40     | ND        | ND      | 42      | ND       | ND     | 7.5    | ND   | ND   | 1.6     | 10        | ND        | ND      | 0.9        | 0.6    | 3.2       | ND       | ND     | 22     | 222       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Nov                                             | 0.9               | ND      | 34       | 0.7      | 0.8         | ND          | 2.5                  | 0.2         | 55      | 39       | ND       | ND      | 39     | ND        | ND      | 38      | ND       | ND     | 8.8    | ND   | ND   | 1.8     | 10        | ND        | ND      | 0.8        | 0.7    | ---       | ND       | ND     | 23     | 217       | ND       | ND      | ND      | ND       | ND   | ND  |  |
| Dec                                             | 0.9               | ND      | 37       | 0.6      | 1.3         | ND          | 2.5                  | 0.2         | 44      | 15       | ND       | ND      | 36     | ND        | ND      | 29      | ND       | ND     | 8.1    | ND   | ND   | 1.8     | 7         | ND        | ND      | 0.5        | 0.7    | ---       | ND       | ND     | 24     | 189       | ND       | ND      | ND      | ND       | ND   | ND  |  |



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| EPA MCL*                                        | Miscellaneous Physical Parameters |            |              |             |          |                |                      |                        |                        |                      | Microorganisms              |                      |                           | Haloacetic Acids (HAAs) |                     |                      |                       |                      |                        | Trihalomethanes (THMs) |            |                      |                      | Volatile Organic Compounds (VOCs) |                       |         |              |                    |              |                   |                  |                |                      |               |              |               |                 |                 |                |                     |                     |     |     |     |     |    |    |    |
|-------------------------------------------------|-----------------------------------|------------|--------------|-------------|----------|----------------|----------------------|------------------------|------------------------|----------------------|-----------------------------|----------------------|---------------------------|-------------------------|---------------------|----------------------|-----------------------|----------------------|------------------------|------------------------|------------|----------------------|----------------------|-----------------------------------|-----------------------|---------|--------------|--------------------|--------------|-------------------|------------------|----------------|----------------------|---------------|--------------|---------------|-----------------|-----------------|----------------|---------------------|---------------------|-----|-----|-----|-----|----|----|----|
|                                                 | pH                                | ALKALINITY | CONDUCTIVITY | TEMPERATURE | CHLORINE | TOTAL HARDNESS | TOTAL ORGANIC CARBON | TOTAL DISSOLVED SOLIDS | TOTAL SUSPENDED SOLIDS | TURBIDITY (Average)* | TOTAL COLIFORM (% positive) | E. COLI (% positive) | HETEROTROPHIC PLATE COUNT | DIBROMOACETIC ACID      | DICHLOROACETIC ACID | MONOBROMOACETIC ACID | MONOCHLOROACETIC ACID | TRICHLOROACETIC ACID | TOTAL HALOACETIC ACIDS | BROMOCHLOROACETIC ACID | CHLOROFORM | BROMODICHLOROMETHANE | CHLORODIBROMOMETHANE | BROMOFORM                         | TOTAL TRIHALOMETHANES | BENZENE | BROMOBENZENE | BROMOCHLOROMETHANE | BROMOMETHANE | tert-BUTYLBENZENE | sec-BUTYLBENZENE | n-BUTYLBENZENE | CARBON TETRACHLORIDE | CHLOROBENZENE | CHLOROETHANE | CHLOROMETHANE | 2-CHLOROTOLUENE | 4-CHLOROTOLUENE | DIBROMOMETHANE | 1,3-DICHLOROBENZENE | 1,4-DICHLOROBENZENE |     |     |     |     |    |    |    |
|                                                 |                                   |            |              |             |          |                |                      |                        |                        |                      |                             |                      |                           |                         |                     |                      |                       |                      |                        |                        |            |                      |                      |                                   |                       |         |              |                    |              |                   |                  |                |                      |               |              |               |                 |                 |                |                     |                     |     |     |     |     |    |    |    |
| Units                                           |                                   | ppm        | uS/cm        | °F          | ppm      | ppm            | ppm                  | ppm                    | ppm                    | NTU                  | %+                          | %+                   | CFU/ml                    | ppb                     | ppb                 | ppb                  | ppb                   | ppb                  | ppb                    | ppb                    | ppb        | ppb                  | ppb                  | ppb                               | ppb                   | ppb     | ppb          | ppb                | ppb          | ppb               | ppb              | ppb            | ppb                  | ppb           | ppb          | ppb           | ppb             | ppb             | ppb            | ppb                 | ppb                 | ppb | ppb | ppb | ppb |    |    |    |
|                                                 |                                   |            |              |             |          |                |                      |                        |                        |                      |                             |                      |                           |                         |                     |                      |                       |                      |                        |                        |            |                      |                      |                                   |                       |         | 5            |                    |              |                   |                  |                |                      |               | 5            | 100           |                 |                 |                |                     |                     |     |     | 75  |     |    |    |    |
| Dalecarlia Water Treatment Plant Finished Water |                                   |            |              |             |          |                |                      |                        |                        |                      |                             |                      |                           |                         |                     |                      |                       |                      |                        |                        |            |                      |                      |                                   |                       |         |              |                    |              |                   |                  |                |                      |               |              |               |                 |                 |                |                     |                     |     |     |     |     |    |    |    |
| Jan                                             | 7.7                               | 62         | 340          | 48          | 3.7      | 114            | 1.6                  | 238                    | 3                      | 0.02                 | 0.0                         | 0.0                  | <1                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 9.8        | 6.2                  | 1.9                  | ND                                | 18                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  |    |    |    |
| Feb                                             | 7.7                               | 63         | 298          | 48          | 3.5      | 112            | 1.4                  | 158                    | ND                     | 0.01                 | 0.0                         | 0.0                  | <1                        | ND                      | 8.9                 | ND                   | 1.2                   | 8.6                  | 19                     | 2.2                    | 9.7        | 5.3                  | 1.3                  | ND                                | 16                    | ND      | ND           | ND                 | ---          | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND |    |    |
| Mar                                             | 7.7                               | 73         | 311          | 54          | 3.4      | 118            | 1.5                  | 175                    | ND                     | 0.02                 | 0.0                         | 0.0                  | <1                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 10.4       | 7.0                  | 2.2                  | ND                                | 20                    | ND      | ND           | ND                 | ---          | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Apr                                             | 7.7                               | 62         | 285          | 57          | 3.3      | 99             | 1.6                  | 178                    | ND                     | 0.02                 | 0.8                         | 0.0                  | <1                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 22.3       | 8.2                  | 1.7                  | ND                                | 32                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| May                                             | 7.7                               | 65         | 297          | 62          | 3.5      | 104            | 1.6                  | 162                    | ND                     | 0.02                 | 0.0                         | 0.0                  | <1                        | ND                      | 9.7                 | ND                   | 1.5                   | 11.5                 | 23                     | 2.2                    | 17.8       | 7.5                  | 1.4                  | ND                                | 27                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND |    |    |
| Jun                                             | 7.7                               | 74         | 334          | 75          | 3.7      | 114            | 1.5                  | 183                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 1                         | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 29.4       | 9.8                  | 1.8                  | ND                                | 41                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Jul                                             | 7.7                               | 86         | 353          | 82          | 3.7      | 137            | 1.9                  | 242                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 2                         | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 32.3       | 13.7                 | 4.5                  | ND                                | 50                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Aug                                             | 7.7                               | 86         | 348          | 79          | 3.7      | 135            | 2.4                  | 260                    | ND                     | 0.03                 | 0.0                         | 0.0                  | 3                         | 1.2                     | 23.3                | ND                   | 3.1                   | 25.6                 | 53                     | 5.3                    | 53.8       | 16.6                 | 3.2                  | ND                                | 74                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND |    |    |
| Sep                                             | 7.7                               | 90         | 362          | 71          | 3.7      | 141            | 2.1                  | 208                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 3                         | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 32.4       | 12.8                 | 3.1                  | ND                                | 48                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Oct                                             | 7.7                               | 98         | 413          | 63          | 3.8      | 159            | 1.8                  | 251                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 2                         | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 14.4       | 12.7                 | 6.0                  | ND                                | 33                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Nov                                             | 7.7                               | 91         | 387          | 52          | 3.6      | 147            | 2.1                  | 225                    | ND                     | 0.02                 | 0.0                         | 0.0                  | <1                        | ND                      | 12.2                | ND                   | 1.5                   | 15.4                 | 29                     | 3.8                    | 19.8       | 10.4                 | 2.5                  | ND                                | 33                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Dec                                             | 7.7                               | 69         | 328          | 43          | 3.6      | 119            | 1.9                  | 199                    | ND                     | 0.02                 | 0.0                         | 0.0                  | <1                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 11.4       | 6.2                  | 1.4                  | ND                                | 19                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND | ND |
| McMillan Water Treatment Plant Finished Water   |                                   |            |              |             |          |                |                      |                        |                        |                      |                             |                      |                           |                         |                     |                      |                       |                      |                        |                        |            |                      |                      |                                   |                       |         |              |                    |              |                   |                  |                |                      |               |              |               |                 |                 |                |                     |                     |     |     |     |     |    |    |    |
| Jan                                             | 7.7                               | 61         | 338          | 50          | 3.7      | 110            | 1.6                  | ---                    | ---                    | 0.01                 | 0.0                         | 0.0                  | <1                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 10.1       | 6.1                  | 1.6                  | ND                                | 18                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Feb                                             | -                                 | -          | -            | -           | -        | -              | -                    | -                      | -                      | 0.04                 | -                           | -                    | -                         | -                       | -                   | -                    | -                     | -                    | -                      | -                      | -          | -                    | -                    | -                                 | -                     | -       | -            | -                  | -            | -                 | -                | -              | -                    | -             | -            | -             | -               | -               | -              | -                   | -                   | -   | -   | -   | -   | -  |    |    |
| Mar                                             | 7.7                               | 65         | 307          | 58          | 3.6      | 111            | 1.5                  | 172                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 4                         | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 10.9       | 7.0                  | ND                   | ND                                | 18                    | ND      | ND           | ND                 | ---          | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND | ND |
| Apr                                             | 7.7                               | 56         | 281          | 61          | 2.9      | 98             | 1.7                  | 176                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 25                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 22.8       | 8.1                  | 1.8                  | ND                                | 32                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND | ND |
| May                                             | 7.7                               | 55         | 278          | 64          | 3.5      | 94             | 1.8                  | 147                    | ND                     | 0.02                 | 0.0                         | 0.0                  | <1                        | ND                      | 10.9                | ND                   | 1.3                   | 11.2                 | 23                     | 2.1                    | 23.5       | 10.0                 | 2.4                  | ND                                | 36                    | ND      | ND           | ND                 | ---          | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Jun                                             | 7.7                               | 67         | 319          | 75          | 3.7      | 110            | 1.6                  | 168                    | ND                     | 0.03                 | 0.0                         | 0.0                  | 37                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 46.2       | 10.9                 | 1.9                  | ND                                | 59                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Jul                                             | 7.7                               | 73         | 334          | 81          | 3.7      | 123            | 1.6                  | 220                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 57                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 34.6       | 13.4                 | 4.2                  | ND                                | 52                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Aug                                             | 7.7                               | 77         | 348          | 78          | 3.7      | 127            | 2.0                  | 258                    | ND                     | 0.03                 | 0.0                         | 0.0                  | 54                        | 1.3                     | 22.3                | ND                   | 2.8                   | 22.6                 | 49                     | 5.3                    | 50.3       | 16.3                 | 3.7                  | ND                                | 70                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Sep                                             | 7.7                               | 79         | 343          | 72          | 3.7      | 129            | 1.9                  | 202                    | ND                     | 0.03                 | 0.0                         | 0.0                  | 26                        | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 29.2       | 13.6                 | 4.4                  | ND                                | 47                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Oct                                             | 7.7                               | 91         | 403          | 66          | 3.7      | 152            | 1.7                  | 249                    | ND                     | 0.02                 | 0.8                         | 0.0                  | 6                         | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 16.8       | 12.0                 | 5.5                  | ND                                | 34                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Nov                                             | 7.7                               | 85         | 384          | 57          | 3.7      | 142            | 1.9                  | 232                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 4                         | ND                      | 11.2                | ND                   | 1.5                   | 13.0                 | 26                     | 4.2                    | 19.3       | 12.2                 | 3.8                  | ND                                | 35                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND |    |
| Dec                                             | 7.7                               | 68         | 338          | 52          | 3.7      | 116            | 2.0                  | 199                    | ND                     | 0.02                 | 0.0                         | 0.0                  | 4                         | ---                     | ---                 | ---                  | ---                   | ---                  | ---                    | ---                    | 13.2       | 6.4                  | 1.3                  | ND                                | 21                    | ND      | ND           | ND                 | ND           | ND                | ND               | ND             | ND                   | ND            | ND           | ND            | ND              | ND              | ND             | ND                  | ND                  | ND  | ND  | ND  | ND  | ND | ND | ND |



EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters  
 ppb = Parts Per Billion  
 ND = Not Detected  
 "—" = No Analysis Required

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EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters  
 ppb = Parts Per Billion  
 ND = Not Detected  
 "..." = No Analysis Required  
 "-" = McMillan Water Treatment Plant out of service

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EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters      ppb = Parts Per Billion      ND = Not Detected      "...." = No Analysis Required

\*.. = McMillan Water Treatment Plant out of service

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| EPA MCL* | Synthetic Organic Compounds |            |          |                 |        |          |           |               |            |                   |              |          |            |        |          |          |                | Miscellaneous |             |           |         | Nitrosamines      |                             |                          |         |                       |                               |                                |                              | Radionuclides                |                                  |                           |                     |                            |                               |                              |                         |              |         |  |
|----------|-----------------------------|------------|----------|-----------------|--------|----------|-----------|---------------|------------|-------------------|--------------|----------|------------|--------|----------|----------|----------------|---------------|-------------|-----------|---------|-------------------|-----------------------------|--------------------------|---------|-----------------------|-------------------------------|--------------------------------|------------------------------|------------------------------|----------------------------------|---------------------------|---------------------|----------------------------|-------------------------------|------------------------------|-------------------------|--------------|---------|--|
|          | METOLACHLOR                 | METRIBUZIN | MOLINATE | trans-NONACHLOR | OXAMYL | PARAQUAT | PARATHION | PENDIMETHALIN | PERMETHRIN | PENTACHLOROPHENOL | PHENANTHRENE | PICLORAM | PROPACHLOR | PYRENE | SIMAZINE | TERBACIL | TERBUTHYLAZINE | THIOBENCARB   | TRIFLURALIN | TOXAPHENE | 2,4,5-T | 2,4,5-TP (SILVEX) | DIBROMOCHLOROPROPANE (DBCP) | ETHELYNE DIBROMIDE (EDB) | CYANIDE | 2,3,7,8-TCDD (DIOXIN) | N-NITROSODIMETHYLAMINE (NDMA) | N-NITROSO-n-PROPYLAMINE (NDPA) | N-NITROSODIBUTYLAMINE (NDBA) | N-NITROSODIETHYLAMINE (NDEA) | N-NITROSOMETHYLETHYLAMINE (NMEA) | N-NITROSPYROLIDINE (NPYR) | N-NITROSOMORPHOLINE | N-NITROSOPIPERIDINE (NPIP) | GROSS ALPHA PARTICLE ACTIVITY | GROSS BETA PARTICLE ACTIVITY | RADIUM-226 & RADIUM-228 | STRONTIUM-90 | TRITIUM |  |
|          |                             |            |          |                 | 200    |          |           |               |            | 1                 |              | 500      |            |        |          | 4        |                |               |             |           | 3       |                   | 50                          | 200                      | 50      | 0.2                   | 30                            |                                |                              |                              |                                  |                           |                     |                            |                               |                              | 15                      | 50**         | 5       |  |
| Units    | ppb                         | ppb        | ppb      | ppb             | ppb    | ppb      | ppb       | ppb           | ppb        | ppb               | ppb          | ppb      | ppb        | ppb    | ppb      | ppb      | ppb            | ppb           | ppb         | ppb       | ppb     | ppb               | ppt                         | ppt                      | ppm     | ppq                   | ppt                           | ppt                            | ppt                          | ppt                          | ppt                              | ppt                       | ppt                 | ppt                        | pCi/L                         | pCi/L                        | pCi/L                   | pCi/L        | pCi/L   |  |

Dalecarlia Water Treatment Plant Finished Water

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    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