

## CITY OF NAPA 2023 WATER QUALITY STANDARDS

### FINISHED DRINKING WATER QUALITY SUMMARY

| CONTAMINANT              | UNITS | MCL  | PHG<br>(MCLG) | NAPA'S DRINKING WATER |             | CONTAMINANT SOURCES  |
|--------------------------|-------|------|---------------|-----------------------|-------------|--|
|                          |       |      |               | AVERAGE               | RANGE       |  |
| Chloride                 | ppm   | 500  | NA            | 13                    | 10 - 16     | Runoff/leaching from natural deposits; seawater influence      |
| Conductivity             | uS/cm | 1600 | NA            | 333                   | 274 - 391   | Substances that form ions when in water; seawater influence    |
| Manganese                | ppb   | 50   | NA            | 3.0                   | 2.5 - 3.6   | Leaching from natural deposits                                 |
| Odor                     | UNITS | 3    | NA            | 1.7                   | 1.4 - 8.0   | Naturally-occurring organic materials                          |
| Sulfate                  | ppm   | 500  | NA            | 55                    | 50 - 60     | Runoff/leaching from natural deposits; industrial wastes       |
| TDS                      | ppm   | 1000 | NA            | 186                   | 150 - 221   | Runoff/leaching from natural deposits                          |
| Turbidity                | NTU   | 5    | NA            | 0.12                  | 0.02 - 1.83 | Soil runoff  |
| Unregulated Contaminants |       |      |               |                       |             |  |
| Boron                    | ppb   | (1)  | NA            | 125                   | 118 - 132   | runoff/leaching from naturally-occurring and man-made sources. |
| Other Contaminants       |       |      |               |                       |             |  |
| Sodium                   | ppm   | NA   | NA            | 21                    | 16 - 26     | Naturally-occurring in ground and surface water                |
| Hardness                 | ppm   | NA   | NA            | 105                   | 69 - 140    |  |

### DISTRIBUTION SYSTEM WATER QUALITY SUMMARY

#### MICROBIOLOGICAL CONTAMINANTS

##### COLIFORM BACTERIA

| AVERAGE MONTHLY NUMBER OF SAMPLES TAKEN | TOTAL NUMBER OF SAMPLES TAKEN | TOTAL % OF POSITIVE SAMPLES DURING HIGHEST MONTH DETECTED | TOTAL NUMBER OF POSITIVE SAMPLES TAKEN | TOTAL % OF POSITIVE COLIFORM BACTERIA |
|---|-------------------------------|---|--|---------------------------------------|
| 109                                     | 1303                          | 0.97%   | 1                                      | 0.08%                                 |

| TREATMENT PLANT | PERFORMANCE STANDARD TREATMENT TECHNIQUE | HIGHEST SINGLE DETECTED MEASUREMENT (NTU) | LOWEST MONTHLY % OF SAMPLES MEETING TURBIDITY LIMITS |
|-----------------|--|---|--|
| TURBIDITY       | TT = 1.0; Min 95% of samples < 0.3       | 0.30                                      | 100.0%   |

#### DISINFECTION BYPRODUCTS, DISINFECTANT RESIDUALS AND DISINFECTION BYPRODUCTS PRECURSORS

##### TRIHALOMETHANES (THM), HALOACETIC ACID (HAA) and BROMATE

| CONTAMINANT | UNITS | MCL | PHG | LEVEL DETECTED |               | MAJOR SOURCE IN DRINKING WATER             |
|-------------|-------|-----|-----|----------------|---------------|--|
|             |       |     |     | AVERAGE        | RANGE         |  |
| THM         | ppb   | 80  | NA  | 60.3           | 30.8 - 78.1   | A byproduct of drinking water disinfection |
| HAA         | ppb   | 60  | NA  | 34.1           | 18.4 - 50.3   |  |
| BROMATE     | ppb   | 10  | 0.1 | 0.005          | 0.000 - 0.016 |  |

##### CHLORINE (Cl<sub>2</sub>)

| CONTAMINANT | UNITS | MRDL | MRDLG | LEVEL DETECTED |             | MAJOR SOURCE IN DRINKING WATER                  |
|-------------|-------|------|-------|----------------|-------------|---|
|             |       |      |       | AVERAGE        | RANGE       |   |
| CHLORINE    | ppm   | 4    | 4     | 0.70           | 0.00 - 1.37 | Drinking water disinfectant added for treatment |

##### CONTROL OF DBP PRECURSORS (TOC)

| CONTAMINANT | UNITS | MCL | PHG | COMPLIANCE RATIO AVERAGE | COMPLIANCE RATIO RANGE |
|-------------|-------|-----|-----|--------------------------|------------------------|
| TOC         | ppm   | TT  | NA  | 1.89                     | 1.37 - 2.49            |

##### LEAD AND COPPER (COLLECTED IN 2021)

| CONTAMINANT | UNITS | AL  | PHG  | # SITES SAMPLED | 90% LEVEL DETECTED | # SITES OVER AL | MAJOR SOURCE IN DRINKING WATER                                       |
|-------------|-------|-----|------|-----------------|--------------------|-----------------|--|
| LEAD        | ppb   | 15  | 2    | 34              | ND                 | 0               | Corrosion of household plumbing systems; erosion of natural deposits |
| COPPER      | ppm   | 1.3 | 0.17 | 34              | 0.33               | 0               |  |