Three Valleys Municipal Water District 2018 WATER QUALITY REPORT TO TVMWD MEMBER AGENCIES

WEYMOUTH refers to the Metropolitan Water District's Weymouth Water Treatment Plant in the city of La Verne.

| | | WEYMOUTH EFFLUENT | MIRAMAR PLANT | MIRAMAR GROUNDWATER | REGULATORY STANDARDS | | NDARDS | |
|---|---------------------|--|---|------------------------|---------------------------|-----------|-------------------|---|
| | | Range/Average | Range/Average | Range/Average | State (Federal) MCL | PHG | State DLR (RL) | Major Sources in Drinking Water |
| SOURCE WATER | | | | | | | | |
| % of State Project Water % of Groundwater | | 0 - 100/36 | 94.078 | 5.92 | NA | NA | NA | |
| PRIMARY STANDARDS - Manda | atory Health-F | Related Standards | | 0.1 | | | | |
| CLARITY | | | | | | T | T | T |
| Combined Filter Effluent (CFE) Turbidity (a) MICROBIOLOGICAL (b) | NTU % ≤ 0.3 | 0.06 (highest) 100% | 0.14 (highest) 100% | 0.16 (highest) 100% | тт | NA | NA | Soil runoff |
| Total Coliform Bacteria (c) | % Positive | 0 - 0.3/0.1% distribution system-wide | 0-1.25/0.1% distribution system-wide | ND | 5.0 | MCLG = 0 | NA | Naturally present in the environment |
| Escherichia coli (E. coli) (c,d) | Number | 0% distribution system-wide | ND distribution system-wide | ND | 1 | MCLG = 0 | NA | Human and animal fecal waste |
| Heterotrophic Plate Count (e) | CFU/ mL | ND-1/ND | ND | ND | TT | NA | (1) | Naturally present in the environment |
| Cryptosporidium | Oocyst 200 L | ND | ND | ND | TT | MCLG = 0 | (1) | Human and animal fecal waste |
| Giardia (f) | Cysts | ND | ND | ND | TT | MCLG = 0 | (1) | Human and animal fecal waste |
| ORGANIC CHEMICALS | | | | | | | | |
| Synthetic Organic Compounds 1,2,3-Trichloropropange (1,2,3-TCP) | <u>Units</u> ppt | ND | ND | ND | 5 | 0.7 | 5 | Discharge from industrial and agrichemical factories; byproducts of producing other compounds |
| (g) 2,4,5-TP (Silvex) | ppb | ND | ND | ND | 50 | 3 | 1 | and pesticides, leaching from hazardous waste site |
| 2,4-D | ppb | ND | ND | ND | 70 | 20 | 10 | Residue of banned herbicide |
| Acrylamide (h) | ppm | NA NA | ND | ND ND | TT | MCLG = 0 | NA | Runoff from herbicide used on row crops, range land, lawns and aquatic weeds |
| Alachlor | pph | ND ND | ND | ND ND | 2 | 4 | 1 | Water treatment chemical impurities |
| Atrazine | | ND | ND | ND | 1 | 0.15 | 0.5 | Runoff from herbicide used on row crops |
| Bentazon | ppb | ND | ND | ND ND | 18 | 200 | 2 | Runoff from herbicide used on row crops and along railroad and highways rights-of-way Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental |
| | ppb | ND | ND | ND ND | 200 | 7 | 100 | grasses |
| Benzo(a)pyrene | ppt | ND | ND | ND ND | 18 | 0.7 | 5 | Leaching from linings of water storage tanks and distribution mains |
| Carbofuran | ppb | | | | | | | Leaching of soil fumigant used on rice, alfalfa and grapes vineyards |
| Chlordane | ppt | ND | ND ND | ND ND | 100 | 30 790 | 100 | Residue of banned insecticide |
| Dalapon | ppb | ND ND | ND ND | ND ND | 400 | 200 | 10 | Runoff from herbicide used on rights of way, crops and landscape maintenance |
| Di(2-ethylhexyl) adipate | ppb | ND ND | ND ND | ND ND | 400 | 12 | 5 3 | Discharge from chemical factories |
| Di(2-ethylhexyl) phthalate | ppb | | ND ND | ND ND | 200 | | | Discharge from rubber and chemical factories; inert ingredient in pesticides |
| Dibromochloropropane (DBCP) | ppt | ND ND | ND ND | ND ND | 7 | 1.7 | 10 | Banned nematicide that may still be present in soils due to runoff/leaching |
| Dinoseb | ppb | | | | | | | Runoff from herbicide used on soybeans, vegetables and fruits |
| Dioxin (2,3,7,8-TCDD) | ppq | ND | ND | ND | 30 | 0.05 | 5 | Waste incineration emissions, chemical factory discharge |
| Diquat | ppb | ND | ND | ND | 20 | 6 | 4 | Runoff from herbicide used for terrestrial and aquatic weeds |
| Endothall | ppb | ND | ND | ND | 100 | 94 | 45 | Runoff from herbicide used for terrestrial and aquatic weeds |
| Endrin | ppb | ND | ND | ND | 2 | 0.3 | 0.1 | Residue of banned insecticide and rodenticide |
| Epichlorohydrin (h) | ppm | ND | ND | ND | TT | MCLG = 0 | NA | Water treatment chemical impurities |
| Ethylene dibromide (EDB) | ppt | ND | ND | ND | 50 | 10 | 20 | Discharge from petroleum refineries; underground gas tank leaks, banned nematocide that maybe still present in soils due to runoff and leaching |
| Glyphosate | ppb | ND | ND | ND | 700 | 900 | 25 | Runoff from herbicide use |
| Heptachlor | ppt | ND | ND | ND | 10 | 8 | 10 | Residue of banned insecticide |
| Heptachlor Epoxide | ppt | ND | ND | ND | 10 | 6 | 10 | Breakdown product of heptachlor |
| Hexachlorobenzene | ppb | ND | ND | ND | 1 | 0.03 | 0.5 | Discharge from metal refineries & agrichemical factories; wastewater chlorination reaction by- product |
| Hexachlorocyclopentadiene | ppb | ND | ND | ND | 50 | 2 | 1 | Discharge from chemical factories |
| Lindane | ppt | ND | ND | ND | 200 | 32 | 200 | Runoff/leaching from insecticide used on cattle, lumber, gardens |
| Methoxychlor | ppb | ND | ND | ND | 30 | 0.09 | 10 | Runoff/leaching from insecticide uses |
| Molinate (Ordram) | ppb | ND | ND | ND | 20 | 1 | 2 | Runoff/leaching from herbicide used on rice |
| Oxamyl (Vydate) | ppb | ND | ND | ND | 50 | 26 | 20 | Runoff/leaching from insecticide uses |
| Pentachlorophenol (PCP) | ppb | ND | ND | ND | 1 | 0.3 | 0.2 | Discharge from wood preserving factories, other insecticidal and herbicidal uses |
| Picloram | ppb | ND | ND | ND | 500 | 166 | 1 | Herbicide runoff |
| Polychlorinated Biphenyls (PCBs) | ppt | ND | ND | ND | 500 | 90 | 500 | Runoff from landfills; discharge of waste chemicals |
| Simazine | ppb | ND | ND | ND | 4 | 4 | 1 | Herbicide runoff |
| Thiobencarb | ppb | ND | ND | ND | 70 | 42 | 1 | Runoff/leaching from herbicide used on rice |
| | • • • | | | | | | | Runon/leaching from herbicide used on rice |

SOURCE WATER % of State Project Water 0 - 100/3694.078 NA NA NA of Groundwater PRIMARY STANDARDS - Mandatory Health-Related Standards Volatile Organic Chemicals 2016 (x) ND ND 200 1000 0.5 1,1,1-Trichloroethane ppb Discharge from metal degreasing sites; manufacture of food wrappings Discharge from industrial, agricultural chemical factories; solvent used in production of TCE. 1.1.2.2-Tetrachloroethane ppb ND ND ND 0.1 0.5 esticides, varnish and lacquers 1,1,2-Trichloro-1,2,2-trifluoroethane Discharge from metal degreasing sites and other factories; dry-cleaning solvent; refrigerant ND ND ND 0.01 ppm 1.2 4 (Freon 113) 1,1,2-Trichloroethane ppb ND ND ND 5 0.3 0.5 Discharge from industrial chemical factories 1,1-Dichloroethane ppb ND ND ND 5 0.5 Extraction & degreasing solvent; fumigant ND ND 10 0.5 1.1-Dichloroethylene daa ND 6 Discharge from industrial chemical factories ND ND 0.5 ND 1,2,4-Trichlorobenzene ppb 5 5 Discharge from textile-finishing factories ND ND ND 1,2-Dichlorobenzene ppb 0.5 Discharge from industrial chemical factories ND ND 500 400 500 1.2-Dichloroethane ppt ND Discharge from industrial chemical factories 0.5 1.2-Dichloropropane ppb ND ND ND 5 0.5 Discharge from industrial chemical factories; primary component of some fumigants 1,3-Dichloropropene ND NE ND 500 200 500 ppt Runoff/leaching from nematocide used on croplands 1,4-Dichlorobenzene ppb ND ND ND 5 0.5 Discharge from industrial chemical factories ppb ND ND ND 1 0.15 0.5 Plastic factory discharge; gas tanks and landfill leaching 100 500 Carbon Tetrachloride ppt ND ND ND 500 Discharge from chemical plants and other industrial activities cis-1,2-Dichloroethylene ND ND ND 100 0.5 industrial chemical factory discharge; biodegradation byproduct of TCE/PCE groundwater ppb Dichloromethane (methylene chloride) ND ND ND 0.5 ppb 5 Discharge from pharmaceutical and chemical factories Ethylbenzene ppb ND ND ND 300 300 0.5 Discharge from petroleum refineries; industrial chemical factories Methyl-tert-butyl-ether (MTBE) daa ND ND ND 13 13 3 Gasoline discharge from watercraft engines Monochlorobenzene daa ND ND ND 70 70 0.5 Discharge from industrial, agricultural chemical factories and dry-cleaning facilities ND ND ND 100 0.5 0.5 Styrene ppb Rubber and plastics factories discharge, landfill leaching Tetrachloroethylene (PCE) ND ND 0.06 0.5 ppb ND Discharge from factories, dry cleaners and auto shops ND ND ND 150 150 0.5 Toluene daa Discharge from petroleum and chemical refineries trans -1,2-Dichloroethylene ND 60 0.5 Industrial chemical factory discharge; biodegradation byproduct of TCE/PCE groundwater ND 10 daa ND contamination Trichloroethylene (TCE) ND ND ND 0.5 ppb Discharge from metal degreasing sites and other factories Trichlorofluoromethane (Freon 11) ppb ND ND ND 150 1300 5 Discharge from industrial factories; degreasing solvent; propellant Leaching from PVC piping; plastics factory discharge; biodegradation byproduct of TCE/PCE Vinvl chloride ppt ND ND ND 500 50 500 iodegradation ND ND 1.75 0.0005 ND 1.8 **Xylenes** ppm Discharge from petroleum and chemical refineries; fuel solvent INORGANIC CHEMICALS ND-220/105 ND 50 Aluminum ppb ND 1000 600 Residue from water treatment process; erosion of natural deposits ND ND ND Antimony ppb Petroleum refinery discharges, fire retardants, solder, electronics ND ND ND 10 0.004 ppb Erosion of natural deposits; glass & electronics production wastes Asbestos (i) MFI ND ND NR N 2 nternal corrosion of asbestos cement pipes; erosion of natural deposits 1000 2000 Barium ppb 118 ND ND 100 Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits ND ND ND Beryllium ppb 4 1 Discharge from metal refineries; aerospace and defense industries Cadmium ppb ND ND ND 0.04 nternal corrosion of galvanized pipes; discharge from electroplating industrial factories and m refineries, runoff from waste batteries and paints, natural deposits erosion Chromium ppb ND ND ND 50 MCI G = 100 10 Discharge from steel and pulp mills; erosion of natural deposits ND 0.3 ND AL=1.3 0.05 Copper (j) mag ND Internal corrosion of household pipes; erosion of natural deposits ND ND ND 150 150 100 Cyanide ppb Discharge from steel/metal, plastic and fertilizer factories Fluoride (k) ppm 0.6-0.9/0.7 ND 0.41-0.59/0.5 0.1 Erosion of natural deposits; water additive that promotes strong teeth ND ND Lead (j) ppb ND AI =15 0.2 5 internal corrosion of household pipes; erosion of natural deposits Mercury ppb ND ND ND 2 1.2 Erosion of natural deposits; discharge from factories; runoff from landfills ppb ND ND ND 100 12 10 Erosion of natural deposits; discharge from metal factories Nitrate (as Nitrogen) ND ND-0.5/ND 2.6-4.2/3.27 10 10 0.4 ppm Runoff & leaching from fertilizer use; septic tank and sewage; erosion of natural deposits ND ND Nitrite (as Nitrogen) ppm ND 0.4 Runoff & leaching from fertilizer use; septic tank and sewage; erosion of natural deposits ND ND ND Perchlorate ppb ndustrial waste discharge ppb ND ND 50 30 Refineries, mines and chemical waste discharge; runoff from livestock lots Thallium ppb ND ND ND 0.1 eaching from ore-processing sites; factory discharge G

| RADIOLOGICALS (I) | | | | | | | | |
|-------------------------------------|-------|----|-----------------------|-------------------------------|--------|-------|-------|--|
| Gross Alpha Particle Activity | pCi/L | ND | ND | ND due 2028 | 15 | (0) | 3 | Erosion of natural deposits |
| Gross Beta Particle Activity | pCi/L | ND | ND-0.071/0.024 | NR | 50 | (0) | 4 | Decay of natural and man-made deposits |
| Combined Radium Radium 226 + 228 | pCi/L | ND | ND (2015) due 2022 | 0.148 (2016) due 2028 | 5 | (0) | NA | Erosion of natural deposits |
| Radium 226 | pCi/L | ND | ND (2015) due 2022 | 0.147 (2016) due 2028 | NA | 0.05 | 1 | Erosion of natural deposits |
| Radium 228 | pCi/L | ND | ND (2015) due 2022 | 0.001 (2016) due 2028 | NA | 0.019 | 1 | Erosion of natural deposits |
| Strontium-90 | pCi/L | ND | ND | NR | 8 | 0.35 | 2 | Decay of natural and man-made deposits |
| Tritium | pCi/L | ND | ND | NR | 20,000 | 400 | 1,000 | Decay of natural and man-made deposits |
| Uranium | pCi/L | ND | due 2019 | 2.4 (2017) due 2020 | 20 | 0.43 | 1 | Erosion of natural deposits |
| | | • | | • | • | | • | |

% of State Project Water 0 - 100/3694.078 NA NA NA 5.92 PRIMARY STANDARDS - Mandatory Health-Related Standards DISINFECTION BY-PRODUCTS, DISINFECTANT RESIDUALS, AND DISINFECTION BY-PRODUCTS PRECURSORS (m) Total Trihalomethanes (TTHM) (i) 11-35/38 44.2 - 64.9 / 55.47 NR 80 NA 1 By-product of drinking water disinfection Sum of Five Haloacetic Acids daa ND-21/17 13 5 - 29 3 / 20 05 NR 60 NΔ 1 By-product of drinking water disinfection (HAA5) Total Chlorine Residual ppm 1.4-2.9/2.4 2.51 - 2.60 / 2.56 NR [4.0] [4.0] NA Drinking water disinfectant added for treatment highest RAA highest RAA Bromate (n) ppb ND-10/5.0 NΔ NA 10 0.1 1.0 Byproduct of drinking water ozonation highest RAA (j) Total Organic Carbon (TOC) 2.1-2.8/2.4 Various natural and man-made sources; TOC as a medium for the formation of disinfection 1.8-2.8/2.35 ND TT NA 0.30 ppm byproducts SECONDARY STANDARDS - Aesthetic Sta ND-220/105 200 Aluminum (o) ND ppb esidue from water treatment processes; natural deposits erosion Chloride ppm 96-97/96 90 6.8-9.8/8.3 500 NΔ (2) Runoff/leaching from natural deposits: seawater influence ND-1/ND Color units ND ND 15 NΔ (1) Naturally occurring organic materials ND ND ND 0.3 0.05 nternal corrosion of household pipes; natural deposits erosion; wood preservatives leaching Copper (j) ppm Foaming Agents-Methylene Blue Acti ND ND ND 500 NΑ (50) ppb Municipal and industrial waste discharges Iron ppb ND ND ND 300 NA 100 eaching from natural deposits: industrial wastes ND ND ND 50 NL=500 20 Manganese ppb eaching from natural deposits MTBE ND ND ND ppb Gasoline discharges from watercraft engines Odor Threshold (p) TON NΑ 3 Naturally occurring organic materials Silver ppb ND ND ND 100 NA 10 Industrial discharges 897-1010/954 500 1.600 NA Specific Conductance 380-410/395 NΔ Substances that form ions when in water; seawater influence uS/cm 190-236/213 500 NΑ 0.5 Sulfate 40 25-31/28 ppm Runoff/leaching from natural deposits; industrial wastes Thiobencarb ppb ND ND ND 42 Runoff/leaching from rice herbicide Total Dissolved Solids (TDS) (a) mag 553-39/596 290-330/310 210-230/220 1 000 NΔ (2) Runoff/leaching from natural deposits; seawater influence NTU ND NΑ 0.1 Turbidity (a) ND ND ppm ND ND ND 5.0 NΑ 0.05 Runoff/leaching from natural deposits; industrial wastes OTHER PARAMETERS **General Minerals** ppm 107-117/112 49-76/66 25 150-160/140 NΔ NΔ Measure of water quality 21-23/22 Measure of water quality Calcium ppm 57-69/63 51-52/51 5 NΔ NΔ (0.1)Hardness (as CaCO₃) ppm 233-274/254 110 NA NA Measure of water quality Magnesium ppm 23-26/24 13 7.5-8.6/8.05 NΑ NΑ (0.01) Measure of water quality Potassium ppm 4.4-5.0/4.7 3.0-3.3/3.1 1.4 NA NΑ (0.2) Measure of water quality Sodium ppm 94-103/98 62 13-22/17.5 NA NA (1) Measure of water quality **Unregulated Contaminants** 130 180-190/185 150 NL=1,000 100 NA ppb Runoff/leaching from natural deposits; industrial wastes Chromium VI ND ND ND NA 0.02 ppb Runoff/leaching from natural deposits; discharge from industrial waste factories Dichlorodifluoromethane (Freon 12) ppb ND NR NR NL=1.000 NΔ 0.5 Industrial waste discharge Ethyl-tert-butyl-ether (ETBE) ND ND NΑ ppb NR NΑ Used as gasoline additive ND ND NR tert-Amyl-methyl-ether (TAME) ppb Used as gasoline additive tert-Butyl alcohol (TBA) ppb ND ND NR NL=12 NΑ 2 MTBE breakdown product; used as gasoline additive Vanadium ppb ND ND NR NL=50 NA Naturally occurring: industrial waste discharge Miscellaneous (r) ppm 0.9-9.1/5.2 NR NR NA NA NA Elemental balance in water; affected by temperature, other factors Calcium Carbonate Precipitation Potential (CCPP) (as CaCO3) (s) Chlorate ppb 32 ND NR NL=800 By-product of drinking water chlorination; industrial processes Corrosivity (t) 12.2-12.5/12.4 11.88-12.04/11.96 NR NA NA NΑ Elemental balance in water; affected by temperature, other factors (as Aggressiveness Index) Corrosivity (u) SI 0.43-0.57/0.50 0.01-0.16/0.085 NR NΑ NΑ NΑ Elemental balance in water; affected by temperature, other factors (as Saturation Index) N-Nitrosodimethylamine (NDMA) ppt 2.2 ND NL=10 By-product of drinking water chlorination; industrial processes 8.1-8.2/8.1 8.1-8.4/8.25 7.9-8.2/8.1 NA NΔ NΑ Measure of water quality ND 100 Radon pCi/L NR NR NA NA

283-650/514

12-58/23

ppm

ppb

Total Dissolved Solids (TDS) (w)

Total Trihalomethanes (TTHM) (v)

210-330/270

2.46-60.9/40.75

210-230/220

NR

1,000

1,000

NA

NA

(2)

(2)

Naturally occurring, comes from decay of uranium in nearly all soils

Runoff/leaching from natural deposits; seawater influence

Runoff/leaching from natural deposits: seawater influence

DEFINITION OF TERMS AND FOOTNOTES

Maximum Contaminant Level

‡ As a wholesale water system, Metropolitan and Three Valleys MWD provides its member agencies with relevant source water information and monitoring results that they may need for their annual water quality report. Compliance with state or federal regulations is determined at the treatment plant effluent locations and/or distribution system, or plant influent per frequency stipulated in Metropolitan and Three Valleys MWD's State-approved monitoring plans, and is based on TT, RAA, or LRAA, as appropriate. Data above Metropolitan's laboratory reporting limit (RL) but below the State DLR are reported as ND in this report; these data are available upon request. Metropolitan and Three Valleys MWD were in compliance with all primary and secondary drinking water regulations for the current monitoring period.

Note: Metropolitan and Three Valleys MWD monitors the distribution system for constituents under the revised Total Coliform Rule (TCR), Water Fluoridation Standards, and Disinfectants/Disinfection Byproduct Rule (TTHMs, HAA5, and total chlorine residual), including NDMA. Constituents with grayed out areas in the distribution system column are routinely monitored at treatment plant effluents and not in the distribution system.

Definition of Terms

| Al | Aggressiveness index | NA | Not Applicable |
|-------------------|---|-------|------------------------------------|
| AL | Action Level | ND | Not Detected at or above DLR or RL |
| Average | Result based on arithmetic mean | NL | Notification Level to SWRCB |
| CaCO ₃ | Calcium Carbonate | NTU | Nephelometric Turbidity Units |
| CCPP | Calcium Carbonate Precipitation Potential | pCi/L | picoCuries per Liter |
| CFE | Combined Filter Effluent | PHG | Public Health Goal |
| | | | |

CFU Colony-Forming Units parts per billion or micrograms per liter (µg/L) ppb Detection Limits for Purposes of Reporting parts per million or milligrams per liter (mg/L) DLR ppm HAA5 Sum of five haloacetic acids ppq RAA parts per quadrillion or picograms per liter (pg/L) **HPC**

Heterotrophic Plate Count Running Annual Average; highest RAA is the highest of all Running Annual Averages calculated as an average Locational Running Annual Average; highest LRAA is the highest

RL

of all Locational Running Annual Averages calculated as an average Range Results based on minimum and maximum values; range and average values are the same if a single value is of all samples collected within a 12 month period reported for samples collected

MCLG Maximum Contaminant Level Goal Saturation Index (Langelier)

SWRCB MFI Million Fibers per Liter State Water Resources Control Board

MRDL Maximum Residual Disinfectant Level **TDS** Total Dissolved Solids

MRDLG Maximum Residual Disinfectant Level Goal TON Threshold Treatment Technique is a required process intended to reduce the level of a contaminate in drinking water TTHM

Footnotes

MCL

Metropolitan and Three Valleys MWD monitors turbidity at the CFE locations using continuous and grab samples. Turbidity, a measure of cloudiness of the water, is an indicator of treatment performance. (a) Turbidity was in compliance with the TT primary drinking water standard and the secondary drinking water standard of less than 5 NTU.

Reporting Limit

Total Trihalomethanes

- Per the State's Surface Water Treatment Rule, treatment techniques that remove or inactivate Giardia cysts will also remove HPCs, Legionella, and viruses. Legionella and virus monitoring is not required. (b)
- Compliance is based on monthly samples from treatment plant effluents and the distribution system. (c)
- The MCL for E. coli is based on routine and repeat samples that are total coliform-positive, and either is E. coli-positive or the system fails to take repeat samples following an E. coli-positive routine sample, or (d) the system fails to analyze a total coliform-positive repeat sample for E. coli
- All distribution system samples had detectable total chlorine residuals, so no HPC was required. Metropolitan and Three Valleys MWD monitors HPCs to ensure treatment process efficacy. (e)
- A single Giardia cyst was detected in one sample from the filter effluent at the Skinner water treatment plant, prior to the treated water reservoir and addition of final disinfectant. The monitoring method detects (f) all cysts, regardless of whether they are alive or dead. The plant met all operational and regulatory requirements throughout the year, including at the time of this single sampling event, and there was no regulatory violation.
- 1.2.3-Trichloropropane (TCP) was monitored quarterly in Metropolitan's and Three Valleys MWD source and treated waters for the State initial monitoring requirement promulgated in January 2018. (g) Metropolitan and Three Valleys MWD will begin annual monitoring in 2019.
- Metropolitan uses acrylamide for water treatment processes and was in compliance with the treatment technique requirements regarding its use when treating drinking water. Metropolitan does not use any (h)
- (i) Data reported once every nine-year compliance cycle until the next samples are collected. Metropolitans current monitoring results are from 2011. Three Valleys MWD results are from 2018.
- As a wholesaler, Metropolitan and Three Valleys MWD have no retail customers and is not required to collect samples at consumers' taps. However, compliance monitoring under Title 22 is required at plant (j)
- (k) Metropolitan and Three Valleys MWD were in compliance with all provisions of the State's fluoridation system requirements.
- Data are from samples collected in 2017. Metropolitan's required triennial monitoring (2020-2022) will be performed in 2020. (1)
- (m) Compliance with the State and Federal MCLs is based on RAA or LRAA, as appropriate. Plant core locations for TTHM and HAA5 are service connections specific to each of the treatment plant effluents.
- (n) Compliance with the State and Federal bromate MCL is based on RAA. No MCL exceedance occurred in the Mills or Weymouth treatment plant effluents.
- (o) Compliance with the State MCL for aluminum is based on RAA. No secondary standard MCL exceedance occurred in the Diemer or Weymouth treatment plant effluents.
- Compliance with odor threshold secondary MCL is based on RAA. Treatment plants begin quarterly monitoring if annual monitoring results are above 3. (p)
- Metropolitan's TDS compliance data are based on flow-weighted monthly composite samples collected twice per year (April and October). The 12-month statistical summary of flow-weighted data is reported in (q) the "Other Parameters" section under "Miscellaneous". Three Valleys MWD monitors for TDS on a monthly basis.
- Data are from voluntary monitoring of constituents and are provided for informational purposes. (r)
- Positive CCPP = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative CCPP = corrosive; tendency to dissolve calcium carbonate. Reference: Standard Methods (SM2330) (s)
- AI ≥ 12.0 = Non-aggressive water; AI 10.0–11.9 = Moderately aggressive water; AI ≤ 10.0 = Highly aggressive water. Reference: ANSI/AWWA Standard C400-93 (R98) (t)
- Positive SI = non-corrosive; tendency to precipitate and/or deposit scale on pipes. Negative SI = corrosive; tendency to dissolve calcium carbonate. Reference: Standard Methods (SM2330) (u)
- (v) HAA5 and TTHM noncompliance samples collected at treatment plant effluents.
- For Metropolitan only: Statistical summary represents 12 months of flow-weighted data and values may be different than the TDS reported to meet compliance with secondary drinking water regulations. (w)
- Volatile Organic Chemicals for the Three Valleys MWD Wells will be done again in 2020. The current results are from 2016. (x)