



Orange Water and Sewer Authority

2015 Drinking Water Test Results Summary

(All substances we tested for; please see the [definitions](#) at the end of the test results. For example, BDL means below detectable level.)



| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---|--|--|---|---------------------------|--|
| Microbiological | | | | | |
| Total Coliform Bacteria (percent) | 1 | 0 – 1 | presence of coliform bacteria in greater than 5% of the monthly samples | 0 | Naturally present in the environment |
| <i>E. coli</i> Bacteria (percent) | 0 | no range | a routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or <i>E. coli</i> positive | 0 | Human and animal fecal waste |
| Turbidity (NTU) | 0.123 and 100% of samples below 0.3 | 0.021 to 0.123 with an average of 0.036 | TT = 1 NTU and 95% of samples below 0.3 | N/A | A measure of the cloudiness of water. It may be caused by inorganic soil particles or fragments of organic matter that can interfere with treatment. |
| Inorganics | | | | | |
| Antimony (ppb) | BDL | no range | 6 | 6 | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| Arsenic (ppb) | BDL | no range | 10 | 0 | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes |
| Asbestos (MFL) (last tested in 2011) | BDL | no range | 7 | 7 | Decay of asbestos-cement water mains; erosion of natural deposits |
| Barium (ppm) | BDL | no range | 2 | 2 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Beryllium (ppb) | BDL | no range | 4 | 4 | Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries |
| Cadmium (ppb) | BDL | no range | 5 | 5 | Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---|--|----------------|-----------------------------|---------------------------|---|
| Chromium (ppb) | BDL | no range | 100 | 100 | Discharge from steel and pulp mills; erosion of natural deposits |
| Copper (ppm) (last tested 2014) | BDL (90 th percentile, with 0 sample sites above the action level) | no range | 1.3 (action level) | 1.3 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Cyanide (ppb) | BDL | no range | 200 | 200 | Discharge from steel/metal factories; discharge from plastic and fertilizer factories |
| Fluoride (ppm) | 0.70 | no range | 4* | 4 | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories |
| * The fluoride level in our water (0.70 of one part per million) was well below the maximum allowed (4 parts per million). ** In accord with Federal requirements, our annual Water Quality Report Cards include a statement that potential sources of fluoride in drinking water include erosion of natural deposits; water additive which promotes strong teeth; [and] discharge from fertilizer and aluminum factories. However, there are no fertilizer or aluminum factories in the watersheds of our Cane Creek Reservoir and University Lake. | | | | | |
| Lead (ppb) (last tested 2014) | BDL (90 th percentile, with 0 sample sites above the action level) | <3 – 13 | 15 (action level) | 0.0 | Corrosion of household plumbing systems; erosion of natural deposits |
| Mercury (ppb) | BDL | no range | 2 | 2 | Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland |
| Nickel (ppm) | BDL | no range | not regulated | not regulated | A mineral that occurs naturally in soils |
| Nitrate (ppm) | BDL | no range | 10 | 10 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Nitrite (ppm) | BDL | no range | 1 | 1 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |
| Selenium (ppb) | BDL | no range | 50 | 50 | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines |
| Sodium (ppm) | 36 | no range | not regulated | 20 [proposed] | An element that occurs naturally in soils |
| Sulfate (ppm) | 58 | no range | 250 [Secondary MCL] | N/A | A mineral that occurs naturally in soils |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|--|------------------------|----------------|-----------------------------|---------------------------|---|
| Thallium (ppb) | BDL | no range | 2 | 0.5 | Leaching from ore-processing sites; discharge from electronics, glass, and drug factories |
| Synthetic Organics, including Pesticides and Herbicides | | | | | |
| 2,4-D (ppb) | BDL | no range | 70 | 70 | Runoff from herbicide used on row crops |
| 2,4,5-TP (Silvex) (ppb) | BDL | no range | 50 | 50 | Residue of banned herbicide |
| Alachlor (ppb) | BDL | no range | 2 | 0 | Runoff from herbicide used on row crops |
| Atrazine (ppb) | BDL | no range | 3 | 3 | Runoff from herbicide used on row crops |
| Benzo(a)pyrene (ppt) | 20 | <20 – 20 | 200 | 0 | Leaching from linings of water storage tanks and distribution lines |
| Carbofuran (ppb) | BDL | no range | 40 | 40 | Leaching of soil fumigant used on rice and alfalfa |
| Chlordane (ppb) | BDL | no range | 2 | 0 | Residue of banned termiticide |
| Dalapon (ppb) | BDL | no range | 200 | 200 | Runoff from herbicide used on rights of way |
| Di(2-ethylhexyl)adipate (ppb) | BDL | no range | 400 | 400 | Discharge from chemical factories |
| Di(2-ethylhexyl)phthalate (ppb) | BDL | no range | 6 | 0 | Discharge from rubber and chemical factories |
| Dibromochloropropane (DBCP) (ppt) | BDL | no range | 200 | 0 | Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards |
| Dinoseb (ppb) | BDL | no range | 7 | 7 | Runoff from herbicide used on soybeans and vegetables |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---------------------------------------|-------------------------------|-----------------------|------------------------------------|----------------------------------|---|
| Endrin (ppb) | BDL | no range | 2 | 2 | Residue of banned insecticide |
| Ethylendibromide (EDB) (ppt) | BDL | no range | 50 | 0 | Discharge from petroleum refineries |
| Heptachlor (ppt) | BDL | no range | 400 | 0 | Residue of banned termiticide |
| Heptachlor epoxide (ppt) | BDL | no range | 200 | 0 | Breakdown of heptachlor |
| Hexachlorobenzene (ppb) | BDL | no range | 1 | 0 | Discharge from metal refineries and agricultural chemical factories |
| Hexachlorocyclopentadiene (ppb) | BDL | no range | 50 | 50 | Discharge from chemical factories |
| Lindane (ppt) | BDL | no range | 200 | 200 | Runoff/leaching from insecticide used on cattle, lumber, gardens |
| Methoxychlor (ppb) | BDL | no range | 40 | 40 | Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock |
| Oxamyl(vydate) (ppb) | BDL | no range | 200 | 200 | Runoff/leaching from insecticide used on apples, potatoes, and tomatoes |
| Polychlorinatedbiphenyls (PCB) (ppt) | BDL | no range | 500 | 0 | Runoff from landfills; discharge of waste chemicals |
| Pentachlorophenol (ppb) | BDL | no range | 1 | 0 | Discharge from wood preserving factories |
| Picloram (ppb) | BDL | no range | 500 | 500 | Herbicide runoff |
| Simazine (ppb) | BDL | no range | 4 | 4 | Herbicide runoff |
| Toxaphene (ppb) | BDL | no range | 3 | 0 | Runoff/leaching from insecticide used on cotton and cattle |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|----------------------------------|------------------------|----------------|-----------------------------|---------------------------|---|
| Volatile Organics | | | | | |
| Benzene (ppb) | BDL | no range | 5 | 0 | Discharge from factories; leaching from gas storage tanks and landfills |
| Carbon Tetrachloride (ppb) | BDL | no range | 5 | 0 | Discharge from chemical plants and other industrial activities |
| Chlorobenzene (ppb) | BDL | no range | 100 | 100 | Discharge from chemical and agricultural chemical factories |
| o-Dichlorobenzene (ppb) | BDL | no range | 600 | 600 | Discharge from industrial chemical factories |
| p-Dichlorobenzene (ppb) | BDL | no range | 75 | 75 | Discharge from industrial chemical factories |
| 1,2-Dichloroethane (ppb) | BDL | no range | 5 | 0 | Discharge from industrial chemical factories |
| 1,1-Dichloroethylene (ppb) | BDL | no range | 7 | 7 | Discharge from industrial chemical factories |
| cis-1,2-Dichloroethylene (ppb) | BDL | no range | 70 | 70 | Discharge from industrial chemical factories |
| trans-1,2-Dichloroethylene (ppb) | BDL | no range | 100 | 100 | Discharge from industrial chemical factories |
| Dichloromethane (ppb) | BDL | no range | 5 | 0 | Discharge from pharmaceutical and chemical factories |
| 1,2-Dichloropropane (ppb) | BDL | no range | 5 | 0 | Discharge from industrial chemical factories |
| Ethylbenzene (ppb) | BDL | no range | 700 | 700 | Discharge from petroleum refineries |
| Styrene (ppb) | BDL | no range | 100 | 100 | Discharge from rubber and plastic factories; leaching from landfills |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---|---|---|-----------------------------|---------------------------|---|
| Tetrachloroethylene (ppb) | BDL | no range | 5 | 0 | Leaching from PVC pipes; discharge from factories and dry cleaners |
| 1,2,4-Trichlorobenzene (ppb) | BDL | no range | 70 | 70 | Discharge from textile-finishing factories |
| 1,1,1-Trichloroethane (ppb) | BDL | no range | 200 | 200 | Discharge from metal degreasing sites and other factories |
| 1,1,2-Trichloroethane (ppb) | BDL | no range | 5 | 3 | Discharge from industrial chemical factories |
| Trichloroethylene (ppb) | BDL | no range | 5 | 0 | Discharge from metal degreasing sites and other factories |
| Tolulene (ppm) | BDL | no range | 1 | 1 | Discharge from petroleum factories |
| Vinyl Chloride (ppb) | BDL | no range | 2 | 0 | Leaching from PVC piping; discharge from plastics factories |
| Xylenes (ppm) | BDL | no range | 10 | 10 | Discharge from petroleum factories; discharge from chemical factories |
| Disinfectants and Disinfection Byproducts Contaminants | | | | | |
| Total Haloacetic Acids (ppb) | 17.8 (highest Locational Running Annual Average) | 7.3 to 19.8 (individual sample sites) | 60 | 0 | By-product of drinking water chlorination |
| Total Trihalomethanes (ppb) | 28.6 (highest Locational Running Annual Average) | 12.4 to 29.6 (individual sample sites) | 80 | 0 | By-product of drinking water chlorination |
| Chloramines (ppm) | 3.0 (average of monthly distribution system samples Jan., Feb., and April through Dec.) | 0.2 to 3.8 (range of individual distribution system samples Jan., Feb., and April through Dec.) | MRDL = 4 | MRDLG = 4 | Water additive used to control microbes |
| Chlorine (ppm) | 1.09 (average of distribution system samples in March during burnout) | 0.04 to 2.03 (range of individual distribution system samples in March during burnout) | MRDL = 4 | MRDLG = 4 | Water additive used to control microbes |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---|------------------------|----------------|-----------------------------|---------------------------|--------------------------------|
| Unregulated Synthetic Organic Chemicals | | | | | |
| Aldicarb (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Aldicarb sulfone (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Aldicarb sulfoxide (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Aldrin (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Aroclor 1016 (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Aroclor 1221 (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Aroclor 1232 (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Aroclor 1242 (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Aroclor 1248 (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Aroclor 1254 (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Aroclor 1260 (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Butachlor (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Carbaryl (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|--|------------------------|----------------|-----------------------------|---------------------------|---|
| Dicamba (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Dieldrin (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| 3-Hydroxycarbofuran (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Methomyl (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Metolachlor (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Metribuzin (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Propachlor (ppb) (last tested in 2012) | BDL | no range | not regulated | not regulated | N/A |
| Unregulated Volatile Organic Chemicals | | | | | |
| Bromodichloromethane (ppb) | 2.8 | no range | not regulated | not regulated | By-product of drinking water chlorination |
| Bromoform (ppb) | BDL | no range | not regulated | not regulated | By-product of drinking water chlorination |
| Chloroform (ppb) | 3.7 | no range | not regulated | not regulated | By-product of drinking water chlorination |
| Chlorodibromomethane (ppb) | 1 | no range | not regulated | not regulated | By-product of drinking water chlorination |
| Bromochloromethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Bromobenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|--|-------------------------------|-----------------------|------------------------------------|----------------------------------|---------------------------------------|
| Bromomethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| n-Butylbenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| sec-Butylbenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| tert-Butylbenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Chloroethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Chloromethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| o-Chlorotoluene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| p-Chlorotoluene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,2-Dibromo-3-chloropropane (DBCP) (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,2-Dibromoethane (EDB) (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Dibromomethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| m-Dichlorobenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Dichlorodifluoromethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,1-Dichloroethane (ppb) | BDL | no range | not regulated | not regulated | N/A |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---------------------------------------|-------------------------------|-----------------------|------------------------------------|----------------------------------|---------------------------------------|
| 1,3-Dichloropropane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 2,2-Dichloropropane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,1-Dichloropropylene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| cis-1,3-Dichloropropylene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| trans-1,3-Dichloropropylene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Fluorotrichloromethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Hexachlorobutadiene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Isopropylbenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| p-Isopropyltoluene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Methyl-t-Butyl Ether (MTBE) (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Naphthalene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| n-Propylbenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,1,1,2-Tetrachloroethane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,1,2,2-Tetrachloroethane (ppb) | BDL | no range | not regulated | not regulated | N/A |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---|---|---|---|-----------------------------------|--|
| 1,2,3-Trichlorobenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,2,3-Trichloropropane (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,2,4-Trimethylbenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,3,5-Trimethylbenzene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,2-Xylene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| 1,3 + 1,4-Xylene (ppb) | BDL | no range | not regulated | not regulated | N/A |
| Disinfection By-product Precursors | | | | | |
| Total Organic Carbon (ppm) Treated | 1.78 (running annual average of Removal Ratio) | 1.70 to 1.86 (range of Removal Ratios) | TT = Removal Ratio greater than or equal to 1.0 | N/A | Naturally present in environment. |
| Specific Ultraviolet Absorption (L/mg-m) | 2.21 | 0.74 to 2.21 | not regulated | not regulated | |
| Additional Unregulated Analyses | | | | | |
| Cryptosporidium (oocysts/100 L) | BDL | no range | not regulated | not regulated | Intestinal protozoan found in human and animal fecal waste |
| Giardia (cysts/100 L) | BDL | no range | not regulated | not regulated | Intestinal protozoan found in human and animal fecal waste |
| Microcystin (ppb) (last tested in 2014) | BDL | no range | not regulated | not regulated; WHO recommends 1.0 | Algal toxin released from blue green algae |
| Anatoxin-a (ppb) (last tested in 2014) | BDL | no range | not regulated | not regulated | Algal toxin released from blue green algae |

| Substance and Unit Measurement | Highest Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) | Major Source in Drinking Water |
|---|------------------------|----------------|-----------------------------|---------------------------|--|
| Cylindrospermopsin (ppb) (last tested in 2014) | BDL | no range | not regulated | not regulated | Algal toxin released from blue green algae |
| Saxitoxin (ppb) (last tested in 2014) | BDL | no range | not regulated | not regulated | Algal toxin released from blue green algae |
| Perchlorate (ppb) (last tested in 2011) | 0.33 | no range | not regulated | not regulated | |

Unregulated Contaminant Monitoring Rule (UCMR3)

| Substance and Unit Measurement | Average Level Detected | Range Detected | Common Sources | Factsheet |
|---|------------------------|----------------|--|---|
| Chromium (ppb) (last measured 2014) | BDL | no range | 21st most abundant element in the Earth's crust. Can be present in plants, soil and volcanic dust, water, humans and animals. | Chromium Factsheet |
| Cobalt (ppb) (last measured 2014) | BDL | no range | Naturally occurring element in the Earth's crust and at low concentrations in some surface and groundwater. | |
| Molybdenum (ppb) (last measured 2014) | BDL | no range | Naturally occurring metal that can be found in small amounts in rocks and soil. Used in the production of steel and cast iron. | Molybdenum Factsheet |
| Strontium (ppb) (last measured 2014) | 59 | 53 to 66 | Naturally occurring but can be released at higher levels from industrial processes, such as coal burning and fertilizer manufacturing. | Strontium Factsheet |
| Vanadium (ppb) (last measured 2014) | BDL | no range | Naturally occurring in many different minerals and in fossil fuel deposits. The primary industrial use of vanadium is in the strengthening of steel. | Vanadium Factsheet |
| Hexavalent Chromium (ppb) (last measured 2014) | 0.04 | <0.03 to 0.05 | Occurs naturally in the environment but also an ingredient in some paint and industrial products, such as metal coatings. | Hexavalent Chromium Factsheet |
| Chlorate (ppb) (last measured 2014) | 375 | 160 to 630 | Byproduct of the water disinfection process and ingredient in herbicides and explosives. | Chlorate Factsheet |

| Substance and Unit Measurement | Average Level Detected | Range Detected | Common Sources | Factsheet |
|---|-------------------------------|-----------------------|--|--|
| 1,4-Dioxane (ppb) (last measured 2014) | BDL | no range | Used as a solvent or solvent stabilizer in the manufacture and processing of paper, cotton, textile products, automotive coolant, cosmetics, and shampoos. | 1,4-Dioxane Factsheet |
| Bromochloromethane (ppb) (last measured 2014) | BDL | no range | A volatile organic compound (VOC). VOCs are a category of chemicals, and they can be found in many forms in the environment, including both human-made and naturally occurring chemical compounds. | Volatile Organic Carbon Factsheet |
| Bromomethane (ppb) (last measured 2014) | BDL | no range | A volatile organic compound (VOC). VOCs are a category of chemicals, and they can be found in many forms in the environment, including both human-made and naturally occurring chemical compounds. | Volatile Organic Carbon Factsheet |
| 1,3-Butadiene (ppb) (last measured 2014) | BDL | no range | A volatile organic compound (VOC). VOCs are a category of chemicals, and they can be found in many forms in the environment, including both human-made and naturally occurring chemical compounds. | Volatile Organic Carbon Factsheet |
| Chlorodifluoromethane (ppb) (last measured 2014) | BDL | no range | A volatile organic compound (VOC). VOCs are a category of chemicals, and they can be found in many forms in the environment, including both human-made and naturally occurring chemical compounds. | Volatile Organic Carbon Factsheet |
| Chloromethane (ppb) (last measured 2014) | BDL | no range | A volatile organic compound (VOC). VOCs are a category of chemicals, and they can be found in many forms in the environment, including both human-made and naturally occurring chemical compounds. | Volatile Organic Carbon Factsheet |
| 1,1-Dichloroethane (ppb) (last measured 2014) | BDL | no range | A volatile organic compound (VOC). VOCs are a category of chemicals, and they can be found in many forms in the environment, including both human-made and naturally occurring chemical compounds. | Volatile Organic Carbon Factsheet |
| 1,2,3-Trichloropropane (ppb) (last measured 2014) | BDL | no range | A volatile organic compound (VOC). VOCs are a category of chemicals, and they can be found in many forms in the environment, including both human-made and naturally occurring chemical compounds. | Volatile Organic Carbon Factsheet |
| Perfluorobutanesulfonic acid (PFBS) (ppb) (last measured 2014) | BDL | no range | Found in products such as firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. | Perfluorinated Compounds Factsheet |
| Perfluoroheptanoic acid (PFHpA) (ppb) (last measured 2014) | BDL | no range | Found in products such as firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. | Perfluorinated Compounds Factsheet |

| Substance and Unit Measurement | Average Level Detected | Range Detected | Common Sources | Factsheet |
|--|------------------------|----------------|--|--|
| Perfluorohexanesulfonic acid (PFHxS) (ppb) (last measured 2014) | BDL | no range | Found in products such as firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. | Perfluorinated Compounds Factsheet |
| Perfluorononanoic acid (PFNA) (ppb) (last measured 2014) | BDL | no range | Found in products such as firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. | Perfluorinated Compounds Factsheet |
| Perfluorooctanesulfonic acid (PFOS) (ppb) (last measured 2014) | BDL | no range | Found in products such as firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. | Perfluorinated Compounds Factsheet |
| Perfluorooctanoic acid (PFOA) (ppb) (last measured 2014) | 0.01 | <0.02 – 0.03 | Found in products such as firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. | Perfluorinated Compounds Factsheet |

Physical Water Quality Characteristics

The following characteristics impact the taste and appearance of drinking water.

| Substance and Unit Measurement | Average Level Detected | Range Detected | Highest Level Allowed (MCL) | Highest Level Goal (MCLG) |
|--|------------------------|----------------|-----------------------------|---------------------------|
| Alkalinity (mg CaCO ₃ /L) | 33.6 | 22.3 to 41.0 | not regulated | not regulated |
| Total Hardness (mg CaCO ₃ /L) | 27.5 | 20.5 to 37.0 | not regulated | not regulated |
| Calcium Hardness (mg CaCO ₃ /L) | 15.7 | 8.4 to 18.8 | not regulated | not regulated |
| Calcium (ppm) | 6.28 | 3.37 to 7.54 | not regulated | not regulated |
| Estimated Magnesium (ppm) based on calculation | 2.9 | no range | not regulated | not regulated |
| Iron (ppm) | 0.010 | 0 to 0.040 | No MCL | 0.3 |
| Manganese (ppm) | 0.006 | 0 to 0.042 | No MCL | 0.05 |
| Orthophosphate as P (ppm) | 0.54 | 0.44 to 0.62 | not regulated | not regulated |
| pH | 8.29 | 7.13 to 8.99 | No MCL | 6.5 to 8.5 |
| Specific Conductance (µmhos/cm) | 242 | 210 to 268 | not regulated | not regulated |
| Color (CU) | 1 | 0 to 2 | No MCL | 15 |
| Total Phosphorus (ppm) | 0.71 | 0.56 to 0.80 | not regulated | not regulated |

Definitions

MCL - Maximum contaminant level - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MCLG - Maximum contaminant level goal - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

SMCL - Secondary maximum contaminant level - limits set for aesthetic reasons. They are non-enforceable.

Action Level - The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.

90th Percentile – 90 percent of the samples were below this value. Required reporting unit for lead and copper.

BDL - Below detection level

ppm - Parts per million - equivalent to milligrams per liter (mg/L). One part per million is comparable to 1 penny in \$10,000.

ppb – Parts per billion – equivalent to micrograms per liter (ug/L). One part per billion is comparable to 1 penny in \$10,000,000.

ppt – Parts per trillion – equivalent to nanograms per liter (ng/L). One part per trillion is comparable to 1 penny in \$10,000,000,000.

NTU – Nephelometric Turbidity Units – Units of measurement used for turbidity or the clarity of water.

PCi/L – PicoCuries per liter – a measure of radioactivity in water with an activity equal to one millionth of a millionth of a curie.

MFL – Million Fibers per liter – a measure of the presence of asbestos fibers that are longer than 10 micrometers in water.

mg CaCO₃/L - Milligrams of calcium carbonate per liter water.

CU - Color units - a measurement used for color of water.

umhos/cm - Micromhos per centimeter - a measurement used for conductivity of water.

MRDLG – Maximum Residual Disinfection Level Goal – The “Level” of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

MRDL – Maximum Residual Disinfection Level - The “Highest Level” (MRDL) of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Removal Ratio – Measure of the effectiveness of Total Organic Carbon removal during treatment process. Actual percentage of Total Organic Carbon removed through treatment divided by the required percent removal. $[(\text{Raw TOC} - \text{Treated TOC})/\text{Raw TOC}]/\text{Required \% TOC Removal}$.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity in excess of 5 NTU is noticeable to the average person.

Locational Running Annual Average (LRAA) – The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts Rule.