

2010 WATER QUALITY TEST RESULTS

| Contaminant (units) | Violation | Level Detected | Unit Measurement | MCLG | MCL | Typical Source of Contaminant |
|---|-----------|----------------|------------------|------|-----|---|
| <u>Synthetic Organic Contaminants Including Pesticides and Herbicides</u> | | | | | | |
| 2,3,7,8-TCDD (Dioxin) | ☉ | ND | ppq | 0 | 30 | Residue from incineration |
| 2,4-D | ☉ | ND | ppb | 70 | 70 | Runoff from herbicide used on row crops |
| 2,4,5-TP (Silvex) | ☉ | ND | ppb | 50 | 50 | Residue of banned herbicide |
| Alachlor (Lasso) | ☉ | ND | ppb | 0 | 2 | Runoff from herbicide used on row crops |
| Aldicarb Total | ☉ | ND | ppb | 3 | 3 | Runoff from insecticide use |
| Aldicarb Sulfone | ☉ | ND | ppb | 2 | 2 | Runoff from insecticide |
| Aldicarb Sulfoxide | ☉ | ND | ppb | | 4 | Runoff from insecticide use |
| Aldrin | ☉ | ND | ppb | | n/a | Runoff from pesticide use |
| Atrazine | ☉ | ND | ppb | 3 | 3 | Runoff from herbicide used on row crops |
| Benzo(A)Pyrene | ☉ | ND | ppb | 0 | .2 | Residue from combustion |
| Butachlor (Machete) | ☉ | ND | ppb | | n/a | Runoff from pesticide use |
| Carbaryl | ☉ | ND | ppb | | n/a | Runoff from pesticide use |
| Carbofuran | ☉ | ND | ppb | 40 | 40 | Leaching of soil fumigant used on rice & alfalfa |
| Chlordane | ☉ | ND | ppb | 0 | 2 | Residue of banned termiticide |
| Dalapon | ☉ | ND | ppb | 200 | 200 | Runoff from herbicide used on rights of way |
| Dicamba | ☉ | ND | ppb | | n/a | Runoff from herbicide use |
| Dieldrin | ☉ | ND | ppb | | n/a | Runoff from pesticide use |
| Di(2-Ethylhexyl)Adipate | ☉ | ND | ppb | 400 | 400 | Discharge from chemical factories |
| Di(2-Ethylhexyl)Phthalate | ☉ | ND | ppb | 0 | 6 | Discharge from chemical factories |
| Dinoseb | ☉ | ND | ppb | 7 | 7 | Runoff from herbicide used on soybeans & vegetables |
| Diquat | ☉ | ND | ppb | 20 | 20 | Runoff from herbicide use |
| Endothall | ☉ | ND | ppb | 100 | 100 | Runoff from herbicide use |
| Endrin | ☉ | ND | ppb | 2 | 2 | Residue of banned insecticide |
| Glyphosate | ☉ | ND | ppb | 700 | 700 | Runoff from herbicide use |
| Heptachlor | ☉ | ND | ppt | 0 | 400 | Residue of banned termiticide |
| Heptachlor epoxide | ☉ | ND | ppt | 0 | 200 | Breakdown of heptachlor |
| Hexachlorobenzene | ☉ | ND | ppb | 0 | 1 | Discharge from metal refineries & agricultural chemical factories |

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| Hexachlorocyclopentadiene | ⊖ | ND | ppb | 50 | 50 | Discharge from chemical factories |
| 3-Hydroxycarbofuran | ⊖ | ND | ppb | | n/a | Runoff from pesticide use |
| BHC-Gamma (Lindane) | ⊖ | ND | ppb | 200 | 200 | Runoff/leaching from insecticide used on cattle, lumber, gardens |
| Methomyl | ⊖ | ND | ppb | | n/a | Residue from insecticide use |
| Methoxychlor | ⊖ | ND | ppb | 40 | 40 | Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock |
| Metolachlor (Dual) | ⊖ | ND | ppb | | n/a | Runoff from herbicide use |
| Metribuzin (Sencor) | ⊖ | ND | ppb | | n/a | Runoff from pesticide use |
| Oxamyl (Vydate) | ⊖ | ND | ppb | 200 | 200 | Runoff/leaching from insecticide used on apples, potatoes & tomatoes |
| PCBs (Polychlorinated biphenyls), Total | ⊖ | ND | ppt | 0 | 500 | Runoff from landfills; discharge of waste chemicals |
| Pentachlorophenol | ⊖ | ND | ppb | 0 | 1 | Discharge from wood preserving factories |
| Picloram | ⊖ | ND | ppb | 500 | 500 | Runoff from herbicide use |
| Propachlor (Ramrod) | ⊖ | ND | ppb | | n/a | Runoff from herbicide use |
| Simazine | ⊖ | ND | ppb | 4 | 4 | Runoff from herbicide use |
| Toxaphene | ⊖ | ND | ppb | 0 | 3 | Runoff/leaching from insecticide used on cotton & cattle |
| <u>Disinfection Byproducts</u> | | | | | | |
| HAA5 | ⊖ | 11 | ppb | 60 | 60 | By-product of drinking water chlorination |
| TTHM (Total trihalomethanes) | ⊖ | 26.1 | ppb | 80 | 80 | By-product of drinking water chlorination |
| <u>Unregulated Contaminants</u> | | | | | | |
| Bromodichloromethane | ⊖ | 9.08 | ppb | n/a | n/a | By-product of drinking water chlorination |
| Bromoform | ⊖ | .13 avg | | | | By-product of drinking water chlorination |
| Chloroform | ⊖ | 12.9 | ppb | n/a | n/a | By-product of drinking water chlorination |
| Dibromochloromethane | ⊖ | 4.15 | ppb | n/a | n/a | By-product of drinking water chlorination |
| Dibromomethane | ⊖ | 2.30 | ppb | n/a | n/a | By-product of drinking water chlorination |
| Sulfate | ⊖ | 21.0 | ppm | n/a | n/a | Naturally occurs in water |
| <u>Inorganic Contaminants</u> | | | | | | |
| Antimony Total | ⊖ | 0 | ppb | 6 | 6 | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder |
| Arsenic | ⊖ | 0 | ppb | 0 | 10 | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |

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| Barium | ☉ | .020 | ppm | 2 | 2 | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Beryllium Total | ☉ | 0 | ppb | 4 | 4 | Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries |
| Cadmium | ☉ | 0 | ppb | 5 | 5 | Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; runoff from waste batteries and paints |
| Chromium | ☉ | 0 | ppb | 100 | 100 | Discharge from steel and pulp mills; Erosion of natural deposits |
| Copper | ☉ | .1200 | ppm | 1.3 | AL=1.3 | Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives |
| Fluoride | ☉ | 1.1 avg. | ppm | 4 | 4 | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Lead | ☉ | 6.3 | ppb | 0 | AL=15 | Corrosion of household plumbing systems; Erosion of natural deposits |
| Mercury | ☉ | 0 | ppb | 2 | 2 | Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills; Runoff from cropland |
| Nickel | ☉ | 0 | ppb | | 100 | Nickel occurs naturally in soils, ground water and surface waters and is often used in electroplating, stainless steel and alloy products. |
| Nitrate (N03-N) | ☉ | .30 | ppm | 10 | 10 | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Nitrite (N02-N) | ☉ | 0 | ppm | 1 | 1 | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Nitrate-Nitrite (N03+N02) | ☉ | .3 | ppm | 10 | 10 | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Selenium | ☉ | 0 | ppb | 50 | 50 | Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines |
| Sodium | ☉ | 7.7 | ppm | n/a | n/a | Naturally occurs in water |
| Sulfate | ☉ | 21 | ppm | n/a | n/a | Naturally occurs in water |

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| Thallium Total | ☉ | 0 | ppb | 0.5 | 2 | Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories |
| Radioactive Contaminants | | | | | | |
| Combined Uranium | ☉ | .04 | ppb | 0 | 30 | Erosion of natural deposits |
| Combined Radium | ☉ | .5 | pCi/l | 0 | 5 | Erosion of natural deposits |
| Volatile Organic Contaminants | | | | | | |
| Benzene | ☉ | ND | ppb | 0 | 5 | Discharge from factories; leaching from gas storage tanks and landfills |
| Bromobenzene | ☉ | ND | ppb | 0 | n/a | |
| Bromodichloromethane | ☉ | 7.8 | ppb | 80 | 80 | By-product of drinking water chlorination |
| Bromoform | ☉ | ND | ppb | 80 | 80 | By-product of drinking water chlorination |
| Bromomethane | ☉ | ND | ppb | n/a | n/a | Runoff from pesticide use |
| Carbon Tetrachloride | ☉ | ND | ppb | 0 | 5 | Discharge from chemical plants & other industrial activities |
| Chloroethane | ☉ | ND | ppb | n/a | n/a | |
| Chloroform | ☉ | 14 | ppb | 80 | 80 | By-product of drinking water chlorination |
| Chloromethane (Methylchloride) | ☉ | ND | ppb | n/a | n/a | |
| O-Chlorotoluene | ☉ | ND | ppb | n/a | n/a | |
| P-Chlorotoluene | ☉ | ND | ppb | n/a | n/a | |
| Dibromochloromethane | ☉ | 2.7 | ppb | 80 | 80 | |
| Dibromomethane | ☉ | ND | ppb | n/a | n/a | |
| M-Dichlorobenzene | ☉ | ND | ppb | n/a | n/a | |
| O-Dichlorobenzene | ☉ | ND | ppb | 600 | 600 | Discharge from industrial chemical factories |
| P-Dichlorobenzene | ☉ | ND | ppb | 75 | 75 | Discharge from industrial chemical factories |
| Dichlorodifluoromethane | ☉ | ND | ppb | n/a | n/a | |
| 1,1 Dichloroethane | ☉ | ND | ppb | n/a | n/a | |
| 1,2-Dichloroethane | ☉ | ND | ppb | 0 | 5 | Discharge from industrial chemical factories |
| 1,1-Dichloroethylene | ☉ | ND | ppb | 7 | 7 | Discharge from industrial chemical factories |
| CIS-1,2-Dichloroethylene | ☉ | ND | ppb | 70 | 70 | Discharge from industrial chemical factories |
| Trans-1,2-Dichloroethylene | ☉ | ND | ppb | 100 | 100 | Discharge from industrial chemical factories |
| Dichloromethane | ☉ | ND | ppb | 0 | 5 | Discharge from pharmaceutical & chemical factories |
| 1,2-Dichloropropane | ☉ | ND | ppb | 0 | 5 | Discharge from industrial chemical factories |
| 1,3-Dichloropropane | ☉ | ND | ppb | n/a | n/a | |
| 2,2-Dichloropropane | ☉ | ND | ppb | n/a | n/a | |
| 1,1-Dichloropropene | ☉ | ND | ppb | n/a | n/a | |
| 1,3-Dichloropropene | ☉ | ND | ppb | n/a | n/a | |
| Ethylbenzene | ☉ | ND | ppb | 700 | 700 | Discharge from petroleum refineries |

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| Hexachlorobutadiene | ☉ | ND | ppb | n/a | n/a | |
| Isopropylbenzene | ☉ | ND | ppb | n/a | n/a | |
| P-Isopropyltoluene (P-Cymene) | ☉ | ND | ppb | n/a | n/a | |
| Methyl-Tert-Butyl-Ether | ☉ | ND | ppb | n/a | n/a | |
| Monochlorobenzene (Chlorobe..) | ☉ | ND | ppb | 100 | 100 | |
| Naphthalene | ☉ | ND | ppb | n/a | n/a | |
| Styrene | ☉ | ND | ppb | 100 | 100 | Discharge from rubber & plastic factories; leaching from landfills |
| 1,1,1,2-Tetrachloroethane | ☉ | ND | ppb | n/a | n/a | |
| 1,1,2,2-Tetrachloroethane | ☉ | ND | ppb | n/a | n/a | |
| Tetrachloroethylene | ☉ | ND | ppb | 0 | 5 | Leaching from PVC pipes; discharge from factories & dry cleaners |
| Toluene | ☉ | ND | ppm | 1 | 1 | Discharge from petroleum factories |
| 1,2,4-Trichlorobenzene | ☉ | ND | ppb | 70 | 70 | Discharge from textile-finishing factories |
| 1,1,1-Trichloroethane | ☉ | ND | ppb | 200 | 200 | Discharge from metal degreasing sites & other factories |
| 1,1,2-Trichloroethane | ☉ | ND | ppb | 3 | 5 | Discharge from industrial chemical factories |
| Trichloroethylene | ☉ | ND | ppb | 0 | 5 | Discharge from metal degreasing sites & other factories |
| Trichlorofluoromethane | ☉ | ND | ppb | n/a | n/a | |
| 1,2,3-Trichloropropane | ☉ | ND | ppb | n/a | n/a | |
| 1,2,4-Trimethylbenzene | ☉ | ND | ppb | n/a | n/a | |
| 1,3,5-Trimethylbenzene | ☉ | ND | ppb | n/a | n/a | |
| Vinyl Chloride | ☉ | ND | ppb | 0 | .2 | Leaching from PVC piping; discharge from plastics factories |
| Xylenes, Total | ☉ | ND | ppm | 10 | 10 | Discharge from petroleum factories; discharge from chemical factories |
| Microbiological Contaminants | | | | | | |
| Total Coliform Bacteria | ☉ | 0% | | 0 | | Naturally preset in the environment |
| Fecal Coliform and E.coli | ☉ | 0% | | 0 | | Human and animal fecal waste |
| OTHER Characteristics | | | | | | |
| Turbidity | ☉ | Highest level .07 | NTU | | | Soil runoff |
| Alkalinity | ☉ | 102 avg. | ppm | n/a | | |
| Hardness | ☉ | 132 avg. | ppm | n/a | | |