| | Contaminant | Standard | Possible source of contaminant | Health Effects | Treatment |
|----------------------|-------------------|--|--|---|---|
| Health Based/Primary | Arsenic | 0.010 mg/L | Naturally occurring in some areas, runoff from orchards, industrial sources | Long term exposure to arsenic levels above the health based standard may cause skin problems, circulatory problems, and increase the risk of certain cancers | Reverse Osmosis Filter, Ion Exchange |
| | Lead | 0.015 mg/L (action level) | Naturally occurring in some areas; lead pipes in household plumbing, corrosive (high pH) water | Children may exhibit delays in physical and mental development. Adults who drink water with concentrations above the health based standard may develop kidney problems and high blood pressure. | Reverse Osmosis Filter; replace plumbing if lead pipes are the source of the lead. |
| | МТВЕ | 20 ug/L odor threshold; 40 ug/L taste threshold | Releases from gasoline storage tanks. MTBE was a gasoline additive that has been phased out of use. | | Carbon Filter |
| | Vinyl Chloride | 0.002 mg/L | Breakdown product of PCE (dry cleaning solvent) and TCE (industrial solvent). Leaching from PVC pipes. | Drinking water with concentrations above the MCL for many years may increase the risk of getting certain cancer | Carbon Filter |
| | voc | 0.005 mg/L | VOCs or volatile organic compounds is a large group of industrial chemicals including Trichloroethene (TCE) and tetrachloroethene also known as perchloroethene (PCE) | Drinking water with concentrations above the MCL for many years may increase the risk of getting certain cancer | Carbon Filter |
| | Coliform Bacteria | 5% total coliform positives in a month. | Naturally occurring | Elevated level is a warning of potential problems | Ultraviolet Disinfection Systems, chlorination, ozonation; remove source of contamination |
| | E. Coli Bacteria | | human and animal fecal matter | Can cause diarrhea, nausea, cramping. May pose health risk to very young children and people with compromised immune systems. | Ultraviolet Disinfection Systems, chlorination, ozonation; remove source of contamination |
| | Nitrate | 10 mg/L | Leaking septic tanks; runoff from fertilizer use; naturally occurring in some areas | Nitrate concentrations above the MCL can cause serious health problems in infants younger than 6 months including blue baby syndrome- inadequate oxygen carrying capacity the blood, methemoglobinimia | Reverse Osmosis Filter; anion exchange (water softener); remove source |
| | Radon | 300 pci/L (proposed) | Naturally occurring gas | Increase risk of lung cancer | aeration, activated carbon filter |

Table 1: Common Drinking Water Contaminants

| | Contaminant | Standard | Possible source of contaminant | Health Effects | Treatment |
|---------------------|-------------|---|---|--|--|
| Aesthetic/Secondary | Iron | 0.3 mg/L | Naturally occurring | Iron does not create a health risk,, but may create a bitter taste in the water and stain plumbing fixtures and laundry. | No treatment required. Ion exchange water softener, continuous chlorination followed by sediment filter |
| | Manganese | 0.05 mg/L | Naturally occurring | manganese does not create a health risk, but may stain clothing, impact the taste of coffee and tea, and appear as black particles in the water | No treatment required |
| | Sodium | 20 mg/L for individuals on restricted sodium diet. 30 - 60 mg/L taste threshold | Naturally occurring, road salt, water softeners | Water with 20 mg/L or more of sodium should not be used by people on a severely sodium restricted diet. Water with 270 mg/L or more of sodium should not be used for drinking by people on a modified sodium restrictive diet. | No treatment required. Reverse osmosis |
| | Chloride | 250 mg/L | Naturally occurring, road salt. | Chloride does not create a health effect. The MCL is set at the concentration where the taste of the water becomes objectionable. Elevated levels of chloride can also contribute to the deterioration of plumbing and water heaters. | No treatment required |
| | рН | 6.5 - 8.5 | Naturally occurring. | Low pH (acidic) can corrode plumbing fixtures and cause lead to leach into the water from lead soldered joints or other plumbing fixtures containing lead. High pH (basic) can give the water a slippery feel and leave soda deposits. | No treatment required. Reverse osmosis |
| | Copper | | Naturally occurring, copper plumbing fixtures, wood preservatives | nausea/vomiting | Activated carbon filter with special media. Reverse osmosis |
| | Hardness | Mineral concentration: Soft water - 0-17 mg/L. Slightly hard water- 17-60 mg/L . Moderately hard water - 61- 120 mg/L. Hard water - 120- 180 mg/L. Very hard water - over 180 mg/L. | Naturally occurring minerals including calcium and magnesium | No known health risks | water softener |