

Domestic Wells: Chemicals and Test Methods

| <i>Compound</i> | <i>Drinking Water Standard</i> | <i>DLR¹</i> | <i>Typical Test Method(s)</i> |
|------------------------------------|--------------------------------|------------------------|--|
| BACTERIA INDICATORS | | | |
| Total Coliform | Present ⁴ | | EPA ² Method 1604, SM ³ 9223B, SM ³ 9221B; IDEXX Labs Methods (Colilert, Colisure, Quanti-tray) |
| Fecal Coliform | Present ³ | | EPA Method 1680; IDEXX Labs Methods (Colilert, Colisure, Quanti-tray); others |
| GENERAL MINERALS & IONS | | | |
| Nitrate | 10 mg/L ⁴ | 0.4 mg/L | EPA 353.2, EPA Method 9210; Anions by EPA Method 300 |
| Nitrite | 1 mg/L ⁴ | 0.4 mg/L | EPA Method 300 |
| Perchlorate | 6 µg/L ⁴ | 4.0 µg/L | EPA Method 314.0 |
| Chloride | 500 mg/L ⁵ | 1 mg/L | Anions by EPA Method 300 |
| Fluoride | 2 mg/L ⁴ | 0.1 mg/L | Anions by EPA Method 300 |
| Sulfate | 500 mg/L ⁵ | 0.5 mg/L | Anions by EPA Method 300 |
| Total Dissolved Solids | 1,000 mg/L ⁵ | 10 mg/L | EPA General Methods |
| METALS⁸ | | | |
| Aluminum | 1,000 µg/L ⁴ | 50 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Antimony | 6 µg/L ⁴ | 6 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Arsenic | 10 µg/L ⁴ | 2 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Beryllium | 4 µg/L ⁴ | 1 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Cadmium | 5 µg/L ⁴ | 1 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Chromium | 50 µg/L ³ | 10 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Hexavalent Chromium | n/a | 1 µg/L | EPA Method 218.6 |
| Iron | 300 µg/L ⁵ | 100 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Manganese | 50 µg/L ⁵ | 20 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Mercury | 2 µg/L ⁴ | 1 µg/L | EPA Method 245.1 |
| Selenium | 50 µg/L ⁴ | 5 µg/L | EPA Methods 200.8, or 200.9 |
| Thallium | 2 µg/L ⁴ | 1 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Vanadium | 50 µg/L ⁶ | 3 µg/L | EPA Methods 200.7, 200.8, or 200.9 |
| Zinc | 5,000 µg/L ⁵ | 50 µg/L | EPA Methods 200.7, 200.8, or 200.9 |

| ORGANICS | | | |
|--|---|-----------------------|--|
| Volatile Organic Compounds | Varies by compound | Varies by compound | EPA Method 524.2 or 524.3 |
| DBCP ⁷ | 0.2 µg/L ⁴ | 0.2 µg/L ⁴ | EPA Method 524.2 or 504.1 |
| RADIONUCLIDES | | | |
| Gross Alpha | 15 pCi/L ⁴ | 3 pCi/L | EPA Methods 9310, 900; SMWW 7110 |
| Gross Beta | 50 pCi/L or 4 millirem/yr ⁴ | 4 pCi/L | EPA Methods 9310, 900 |
| Radium 226+228 | 5 pCi/L ⁴ | 1 pCi/L | Radium 226: EPA Methods 9315, 903.0; Radium 228: EPA Methods 9320, 904.0 |
| Tritium | 20,000 pCi/L ⁴ | 1,000 pCi/L | EPA Method 906 |
| Uranium | 20 pCi/L ⁴ | 1 pCi/L | EPA Methods 908.0, 908.1 |
| Notes: | | | |
| <ol style="list-style-type: none"> 1. DLR = Detection Limit for Reporting. The testing procedure must be able to resolve concentrations of a particular chemical at this level in order for the Division of Drinking Water and/or the US EPA to accept the results. 2. EPA - US Environmental Protection Agency 3. SM = Standard Method 4. MCL = Maximum Contaminant Level 5. SMCL = Secondary Maximum Contaminant Level 6. NL = Notification Level 7. Other names for this chemical include: Dibromochloropropane and 1,2-Dibromo-3-chloropropane 8. For other metals not specifically listed, generally use EPA Method 200.7 or 200.8, 200.9 9. For additional questions, please contact gama@waterboards.ca.gov | | | |