

Hard Water, Salt, and Minerals Kit

Generally hard water tends to leave behind residue and scale. Scale, typically a carbonate or silica residue, could clog or reduce the water flow in pipes, cause buildup in hot water heaters, impart an alkaline taste to water, reduce the efficiency of water heaters, and/or cause other aesthetic problems. Typically these problems are encountered when hardness levels exceed 100 to 200 mg/L or by high silica content.

As a private well owner, it is up to you to solve the problem and to monitor the safety of your water.

Pixis Labs is an accredited laboratory with the State of Oregon Drinking Water Program. As an analytical laboratory we can provide high quality test results and non-biased informative opinions. This allows our clients to make sophisticated and informed decisions to protect their family's health and financial interests.

Langlier (or Scaling) Index Kit

| Parameter | Analytical Method | Individual Test Price | Kit Price |
|------------------------|-------------------|-----------------------|-----------|
| pH | SM 4500- H-B | \$15.00 | |
| Alkalinity | SM 2320B | \$22.00 | |
| Calcium Hardness | SM 2340B | \$25.00 | |
| Total dissolved Solids | SM 2540C | \$24.00 | |
| Langlier Index* | Calculation | \$10.00 | \$ 86.00 |

*Langlier Index of zero indicates that the water is "balanced" and is **less likely to cause scale formation.**

Water can be softened through the use of ion-exchange or cationic resin beds, but both processes increase the sodium content of the water. Therefore, households with individuals on a low sodium diet need to make the doctors aware of the treatment system.

Sodium Chloride (Salt) Kit

| Parameter | Source | Analytical Method | Individual Test Price | Kit Price |
|-----------|-----------------|-------------------|-----------------------|-----------|
| Sodium | Water Treatment | EPA 200.7 | \$20.00 | |
| Chloride | Water Treatment | EPA 300.0 | \$30.00 | |
| | | | | \$45.00 |

Minerals have both beneficial and harmful effects. Low doses are needed to maintain good health, while high doses in addition to hardness may cause serious health issues.

Minerals and Anions Kit

| Parameter | Source | Analytical Method | Individual Test Price | Kit Price |
|-----------|------------|-------------------|-----------------------|--------------------|
| Calcium | Hard water | EPA 200.7 | \$20.00 | |
| Magnesium | Hard Water | EPA 200.7 | \$20.00 | |
| Iron | Background | EPA 200.7 | \$20.00 | |
| Sodium | Softener | EPA 200.7 | \$20.00 | \$75.00 (Minerals) |
| Chloride | Softener | EPA 300.0 | \$30.00 | |
| Sulfate | Background | EPA 300.0 | \$30.00 | \$110.00 |
| Silica | Background | EPA 200.8 | \$25.00 | |

PIXIS Home

You may pick up sampling bottles and instructions at the laboratory, or we can arrange to ship bottles and instructions to you for a small fee.

For more information, please contact Customer Service at customerservice@pixislabs.com or call (503) 254-1794.