

**SECTION 923
WATER FOR CONCRETE**

923-1 Chemical and Physical Requirements.

Water for use with cement shall be clean and practically free of oil, acid, alkali, chlorides, organic matter, and other deleterious substances.

Water from city water supplies which are approved by a public health department may be accepted without being tested. Water from all other sources shall be tested and approved before use and shall not contain impurities in excess of the following limits:

Acidity or alkalinity calculated in terms of calcium carbonate.....	0.05%
Total organic solids.....	0.05%
Total inorganic solids.....	0.08%
Total chlorides as sodium chloride	0.05%

A period of ten days shall be allowed for tests on water after the sample has been received in the Laboratory.

The Department may require additional compliance testing at any time, of any water source, at the discretion of the Engineer.

923-2 Mortar Tests.

Mortar, composed of the water to be used on the project and standard sand and cement, when subjected to standard soundness, time of setting, and 1:3 mortar tests, shall show no unsoundness and, when compared with a similar test of mortar consisting of distilled water and the same sand and cement, it shall show no marked change in time of setting, and its strength shall not be less than 90% of that using distilled water.