

3906 WATER FOR CONCRETE AND MORTAR

3906.1 SCOPE

Provide water for use in mixing and curing Portland cement concrete and mortar.

3906.2 REQUIREMENTS

Provide water for mixing concrete meeting ASTM C1602, *Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete*, and the following:

(1) Not salty or brackish

(2) Clean

(3) Free of injurious quantities of deleterious substances such as oil, acid, alkali, and organic matter

Provide water for use in curing concrete that does not contain impurities at concentrations that cause discoloration or surface etching.

A Potable Water

For the purpose of the Work specified in section 3906, "Water for Concrete and Mortar," the Department defines potable water as water suitable for human consumption. The Engineer will allow potable water without testing.

B Non-potable Water

For the purpose of the Work specified in section 3906, "Water for Concrete and Mortar," the Department defines non-potable water as water not fit for human consumption or contains quantities of substances that discolor, make it smell, or have an objectionable taste. Non-potable water does not contain water from concrete production operations. The Engineer may conduct testing to determine allowable use of a non-potable Contractor proposed water source.

Provide non-potable water meeting the requirements of ASTM C1602, *Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete*, Table 1.

C Clarified Water

For the purpose of the Work specified in section 3906, "Water for Concrete and Mortar," the Department defines clarified water as water from concrete production operations that was processed by filtration or a settling system such as a pond or weir(s) to clarify the water.

Supply clarified water only from sources listed on the Approved/Qualified Products List. Provide clarified water meeting the requirements ASTM C1602, *Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete*, Table 1 and Table 2. The density of the combined mixing water must not exceed 1.03.

3906.3 SAMPLING AND TESTING

Provide representative samples of water in clean containers to the Engineer for testing as required by the Schedule of Materials Control.