

5.15 WATER FOR USE WITH PORTLAND CEMENT

(a) General.

These instructions cover the sampling and acceptance of water used in the production of mixtures containing Portland Cement.

(b) Basis of Acceptance.

See Standard Specifications Manual Subsection 2401.

(1) Water from Domestic or City Supplies.

Water from domestic or city supplies and from other sources approved by health authorities for domestic use may be accepted without testing for all concrete except that to be used in the production of prestressed concrete units. All water must be tested before it is used in concrete for the production of prestressed units.

(2) Untreated Water from Lakes, Ponds, Wells and Streams.

Water from these sources must be sampled and tested in the Materials and Research Center and accepted before it is used in the production of all classes of concrete.

(c) Sampling.

Care should be exercised to insure that the sample of water is representative of the source of supply. Equipment used to take the sample and containers for shipping it to the laboratory should be clean. Samples are to be shipped in plastic or glass containers. If glass containers are used they must be carefully packed for shipment. Metal containers are not acceptable for shipping samples of water.

(d) Reporting.

(1) Water from Domestic or City Supplies.

A visual inspection report is issued by the Field Engineer to cover the water used for regular concrete work. CMS projects do not require this report, because it is handled within the mix design.

(2) Untreated Water and Water for Prestressed Concrete.

The Materials and Research Center will issue a report showing the results of tests conducted on samples submitted by the Field Engineer.