

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

(The person who receives or originates the issue and needs to forward the issue for action.)

Modify Specification _____ 923_____.
Section/File number

New Section _____.
Section number

Subject: Water for Concrete – Chemical Requirements

Origination date: March 7, 2005

Originator: Michael Bergin

Office/Phone: State Material Office 352-955-6666

Email address/ michael.bergin@dot.state.fl.us

Userid:

Problem statement: Make clarification in Subsection 923-3.1 to allow AASHTO T-26 or “Standard Methods for the Examination of Water and Waste Water” to be used as guides for the testing of water. Clarify the requirements with two new tables in subsection 3.2

Information source: State Materials Office Engineers and Chemists

Background data: “Standard Methods for the Examination of Water and Waste Water” is more in line with current water testing methods.

Recommended

Usage Note: Jobs with concrete.

Desired implementation

date: Beginning with the January 2006 letting.



Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

MEMORANDUM

DATE: May 2, 2005

TO: Specification Review Distribution List

FROM: Duane F. Brautigam, P.E., State Specifications Engineer

SUBJECT: **Proposed Specifications Change: 9230300 - Water for Concrete-Chemical Requirements**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change to Section 923.

This change was proposed by Michael Bergin of the State Materials Office to include the Standard Methods for the examination of water as a reference source.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DB or duane.brautigam@dot.state.fl.us. Comments received after May 30, 2005 may not be considered. Your input is encouraged.

DFB/jf

Attachment

COMMENTS:

Submitted by:

Phone #:

**WATER FOR CONCRETE-CHEMICAL REQUIREMENTS.
(REV 4-25-05)**

ARTICLE 923-3 (Page 803) is deleted and the following substituted:

923-3 Chemical Requirements.

923-3.1 Testing: All chemical analysis or test shall be performed in accordance with AASHTO T 26 *or Standard Methods for the Examination of Water and Wastewater.*

923-3.2 Reclaimed Water: Water from mixer washout and recycled wash water shall be tested and approved before use and shall not exceed the following allowable limits:

- ~~Equivalent Alkalis as (Na₂O + 0.658 K₂O) — 0.06%~~
- ~~Total Solids — 5.00%~~
- ~~Total Chlorides as Sodium Chloride — 0.05%~~
- ~~Sulfate as SO₄ — 0.30%~~

<i>Chemical Test</i>	<i>Maximum (%)</i>
<i>Equivalent Alkalis as (Na₂O + 0.658 K₂O)</i>	<i>0.06</i>
<i>Total Solids</i>	<i>5.00</i>
<i>Total Chlorides as Sodium Chloride</i>	<i>0.05</i>
<i>Sulfate as SO₄</i>	<i>0.30</i>

923-3.3 All Other Sources: Water from all sources, other than public health approved sources, shall be tested and approved before use and shall not exceed the following allowable 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%~~
- ~~Sulfate as SO₄ — 0.30%~~

<i>Chemical Test</i>	<i>Maximum (%)</i>
<i>Acidity or alkalinity calculated in terms of calcium carbonate</i>	<i>0.05</i>
<i>Total organic solids</i>	<i>0.05</i>
<i>Total inorganic solids</i>	<i>0.08</i>
<i>Total chlorides as sodium chloride</i>	<i>0.05</i>