Florida Department of Transportation

JEB BUSH
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JOSÉ ABREU
SECRETARY

June 1, 2005

Mr. Donald Davis
Program Operations Engineer
Federal Highway Administration
545 John Knox Road
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section 923
Proposed Specification: 9230300

Dear Mr. Davis:

We are submitting, for your approval, two copies of a proposed Supplemental Specification for Water for Concrete-Chemical Requirements.

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

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to SP965DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane F. Brautigam, State Specifications Engineer at 414-4110.

Sincerely,

Signature on File

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

DFB/jf
Attachment
cc: General Counsel
Florida Transportation Builders' Assoc.
State Construction Engineer

**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 ($Na_2O$ + 0.658 $K_2O$) - 0.06%~~
~~Total Solids - 5.00%~~
~~Total Chlorides as Sodium Chloride - 0.05%~~
~~Sulfate as $SO_4$ - 0.30%~~

| *Chemical Test* | *Maximum (%)* |
|---|---|
| *Equivalent Alkalis as ($Na_2O$ + 0.658 $K_2O$)* | *0.06* |
| *Total Solids* | *5.00* |
| *Total Chlorides as Sodium Chloride* | *0.05* |
| *Sulfate as $SO_4$* | *0.30* |

**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 $SO_4$ - 0.30%~~

| *Chemical Test* | *Maximum (%)* |
|---|---|
| *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* |

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