



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
WATER

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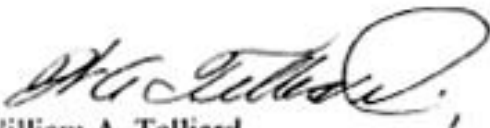
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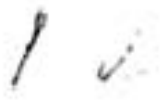
We are pleased to inform you that the Statistics and Analytical Support Branch (SASB) and the Office of Ground Water and Drinking Water's Technical Support Center (OGWDW/TSC), have determined that Westco Scientific's SmartChem Method 280-400E [Revision Date, December 9, 2003] for determination of total cyanide in water, is an acceptable version of EPA Method 335.4 approved at 40 CFR Part 141 for National Primary Drinking Water Regulations (NPDWR) compliance monitoring. Furthermore, SASB and OGWDW/TSC have determined that SmartChem Method 280-400E is an acceptable version of EPA Method 335.3 approved at 40 CFR Part 136 for National Pollutant Discharge Elimination System (NPDES) wastewater compliance monitoring.

SmartChem Method 280-400E determines total cyanide by discrete analysis. A sample is subjected to a manual reflux-distillation procedure in which free cyanide and cyanide complexes generate hydrocyanic acid (HCN) gas that is absorbed in a sodium hydroxide solution. The cyanide ion in the absorbing solution is then converted to cyanogen chloride by reaction with chloramine-T, and subsequently, reacts with pyridine and barbituric acid to form a red-colored complex that is measured colorimetrically at 570 nm.

We appreciate your interest in the development of environmental monitoring methods. If you have any questions regarding the review of this alternate test procedure (ATP Case No's D04-003 and N04-003), please contact William Telliard for wastewater inquiries (202-566-1061) or Herb Brass for drinking water inquiries (513-569-7936).

Sincerely,


William A. Telliard
Director of Analytical Methods
Engineering and Analysis Division (4303)


Herb Brass, Ph.D.
Technical Support Center (MS-140)
Office of Ground Water and Drinking Water

cc:

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