

0013

Trihalomethanes in Raw Water Supplies - Detection and Removal

Status: Accepted

Category: 1 Water Filtration

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Trihalomethanes (THM) are disinfection byproducts present in water supplies from a surface source or ground water source influenced by a surface source. While ammonia injection by municipal treatment facilities controls THM levels by production of chloramines in distribution piping, THM are present in raw feed water to facilities. THM compounds, such as chloroform, are carcinogens and not effectively removed by conventional water purification components. Further, the presence of THM compounds in treated water requires non-routine volatile organic analysis. Removal processes and techniques for THM will be discussed. Further, specific industries and applications requiring THM removal will be summarized.

Bio

William V. Collentro is a Visiting Assistant Professor at Worcester Polytechnic Institute. He is also a Senior Consultant and founder of Water Consulting Specialists, Inc., Doylestown, PA and has more than 40 years experience in water purification. He holds both a B.S. and M.S. in Chemical Engineering from WPI. Mr. Collentro is also a member of the PDA-TRI Faculty and an Adjunct Professor at Stevens Institute of Technology. He has published numerous articles discussing pharmaceutical water systems and is the author of "Pharmaceutical Water, System Design, Operation, and Validation," published by Interpharm Press in 1999. He is a member of several professional organizations including PDA, ISPE, ACS, AIChE, WQA, AFS, NEWWA and AWWA. He may be reached at wcsi38@aol.com.