Project Profile Information Form

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Project Title: Chloramine Decomposition in Distribution System and Model Waters

Project Number: 937

Principal Investigators: Richard. L. Valentine, University of Iowa

Objectives:

(State the relevant objectives of the project; *75 words or less.*)

This study was designed to contribute to a better understanding of the fate of chloramines in distribution systems. The project objectives were to: 1) characterize the influence of water quality parameters on chloramine decomposition rates; 2) evaluate and compare chloramine decomposition rates in distributions system water with rates determined in model systems; 3) characterize the nature of chloramine decomposition products; 4) perform mass and redox balances that include all known nitrogen-containing and chlorine-containing products, and; 5) develop mathematical relationships and models of use to describing the rate of chloramine loss in drinking water.

Background:

(Provide background information; *75 words or less.*)

Chloramines, produced by a reaction between free chlorine and ammonia in a process called chloramination, have long been used to provide a disinfecting residual in distribution systems where it is difficult to maintain a free chlorine residual. More recently chloramines have been used to replace free chlorine because they are believed to produce fewer disinfection by-products (DBPs). The U.S. Environmental Protection Agency has promulgated a maximum contaminant level (MCL) of 4.0 mg/L as Cl_2. Although chloramines are generally believed to be less reactive than free chlorine, they are unstable, even in the absence of organic matter, and they disappear slowly. To meet DBP and disinfection objectives, it is desirable that the chloramine residual be a stable as possible. In spite of a long history of use, the fate of chloramines in distribution systems and the characteristics and processes that influence their stability are largely unknown.

Highlights:

(Provide "at a glance" the main findings of the research [minimum of three]; *100 words or less.*)

This research developed both a sophisticated model that mechanistically describes monochloramine decay and a simplified model that can be used to determine the theoretical stability of monochloramine for a

Chloramine Decomposition In Distribution System And Model Waters

Zaid K. Chowdhury,R. Scott Summers,Lori Work,Natalie Smith,Lewis Rossman,James G. Uber

Chloramine Decomposition In Distribution System And Model Waters:

Chloramine Decomposition in Distribution System and Model Waters Richard Louis Valentine,Kenan Ozekin,Peter J. Vikesland,1998 **Drinking Water Distribution Systems** National Research Council,Division on Earth and Life Studies,Water Science and Technology Board,Committee on Public Water Supply Distribution Systems: Assessing and Reducing Risks,2007-01-22 Protecting and maintaining water distributions systems is crucial to ensuring high quality drinking water Distribution systems consisting of pipes pumps valves storage tanks reservoirs meters fittings and other hydraulic appurtenances carry drinking water from a centralized treatment plant or well supplies to consumers taps Spanning almost 1 million miles in the United States distribution systems represent the vast majority of physical infrastructure for water supplies and thus constitute the primary management challenge from both an operational and public health standpoint Recent data on waterborne disease outbreaks suggest that distribution systems remain a source of contamination that has yet to be fully addressed This report evaluates approaches for risk characterization and recent data and it identifies a variety of strategies that could be considered to reduce the risks posed by water quality deteriorating events in distribution systems Particular attention is given to backflow events via cross connections the potential for contamination of the distribution system during construction and repair activities maintenance of storage facilities and the role of premise plumbing in public health risk The report also identifies advances in detection monitoring and modeling analytical methods and research and development opportunities that will enable the water supply industry to further reduce risks associated with drinking water distribution systems *Optimizing Chloramine Treatment* Gregory J. Kirmeyer,2004 This manual recommends optimal operational criteria for chloramine application to enhance and protect distribution system water quality It examines the chemical characteristics of chloramines documents the use of chloramines with case studies and provides planning design startup and monitoring strategies for optimizing the use of chloramines *Disinfection By-Products in Drinking Water* M Fielding,M Farrimond,1999-01-01 This volume brings together contributors from water regulators and water suppliers in Europe and North America to discuss the main issues associated with reaching a cost effective balance between microbial and chemical risks Overviews of research are presented alongside illuminating case studies of the practical approaches taken by water companies and regulators on both sides of the Atlantic *Maintaining Distribution System Residuals Through Booster Chlorination* James G. Uber,2004 The goal of this project was to discuss the potential advantages associated with booster disinfection the kinetics of chlorine decay and trihalomethane THM formation under rechlorination conditions and the use of network hydraulic and water quality models to locate booster disinfection stations and determine their dose characteristics The following are highlights from the research A laboratory procedure was proposed for analyzing chlorine decay under simulated booster conditions An initial set of experiments evaluated disinfectant decay under booster conditions and found it to be dependent on both the magnitude and time of the boost dose THM

formation under booster conditions showed no long term reduction for any set of results indicating THM formation is not solely dependent on disinfectant concentration In booster chloramination boosting with chlorine appeared to be very successful at producing and maintaining a low ammonia concentration by recombining with the ammonia formed from chloramine decay A second order model including a reaction component that represents natural organic matter was developed to describe chlorine decay and THM formation under booster conditions A method was developed to determine good locations and schedules for multiple booster doses by a systematic evaluation of alternative designs using network models By exploring the disinfection decay kinetics under rechlorination and developing methods for booster chlorination systems design the project results will assist utilities and consultants in making better use of booster disinfection as a residual maintenance approach Originally published by AwwaRF for its subscribers in 2003 **Ammonia Release from Chloramine Decay** Christopher C. Bone,1999 *Control of Disinfection By-products in Drinking Water Systems* Anastasia Nikolau,Luigi Rizzo,Hüseyin Selcuk,2007 The occurrence of disinfection by products DBPs in drinking water has been an issue of major concern during several decades The formation of many DBPs species during water disinfection has been documented while new by products are still being detected as the analytical instrumentation available becomes more accurate and sensitive Most of the DBPs have been proven to have toxic effects on living organisms therefore they pose risks to human health during drinking water consumption The factors affecting their formation have been extensively investigated their transport and fate have been studied modelling efforts for several of them have been performed in order to understand better their behaviour and therefore try to minimise their occurrence in waters Techniques for their removal from water have also been applied and a variety of disinfection methods or combinations of disinfecting agents have been investigated with the aim to produce safe drinking water containing the minimum possible concentrations of DBPs This book deals with the advances in control of DBPs in drinking water systems Further than an providing an overview of existing disinfection techniques and by products up to date information on the parameters affecting the procedures of DBPs formation analytical methods for their determination toxicity regulation it pays special emphasis on the advanced treatment methods applied recently for DBPs control and presents recent promising findings as well as case studies in this field as the relevant research is proceeding producing more knowledge and practical solutions in regard to the disinfected drinking water quality

Biodegradable Organic Matter in Drinking Water Treatment and Distribution Michèle Prévost,2005 This compilation covers all aspects of biodegradable organic matter in drinking water by addressing the improvement made to water treatment and quality during the last 20 years This book is a must for researchers and a valuable reference and guidance tool for all water producers Nitrification Modeling in Pilot-scale Chloraminated Drinking Water Distribution Systems Jian Yang,2005 **Environmental Engineering** Lucjan Pawlowski,Marzenna R. Dudzinska,Artur Pawlowski,2006-11-16 Environmental engineering protects the conditions of a safe environment its role being crucial in

eliminating ecological threats It has an interdisciplinary character utilising principles from biology chemistry biochemistry and physics to neutralize pollutants in all facets of the environment Environmental engineering deals with a wide range of technical and technological problems including the design and maintenance of water supply sewage disposal heating ventilation and air conditioning in buildings This proceedings aims to assess the state of scientific research in various areas of environmental engineering to evaluate organizational technical and technological progress in contributing to ecological security and to determine the place of environmental engineering in sustainable development taking into account current political and economic conditions Environmental Engineering is an invaluable source of information and ideas for the international environment engineering scientific community Computer Modeling of Water Distribution Systems American Water Works Association,2005 Updated from the 1989 version this manual presents the basics of computerized programs and processes for control and maintenance of a water distribution system Discussed are operational functions that should be included how systems should be designed and organized and what operators should be aware of to integrate new data into current systems Water Disinfection and Natural Organic Matter R. A. Minear,1996 As part of the effort to balance water treatment processes between allowing pathogenic infection by doing too little and raising the risk of cancer with by products of the treatment 20 papers from a symposium in Chicago August 1995 present information on the chemical identity of natural organic matter and its interactions with the inorganic precursor bromide ion They review the history of natural organic matter in water treatment and the impact of regulations then plunge into reports on an economical experimental approach to developing predictive models for by products of disinfection a comparison of analytical techniques for determining cyanogen chloride in chloraminated drinking water the effect of ozonation and biotreatment on molecular size and hydrophilic fractions of natural organic matter removing bromate ion by electric arc discharge and high energy electron beam processes and other topics Annotation copyrighted by Book News Inc Portland OR **Assessment of Chloramine and Chlorine Residual Decay in the Distribution System** Zaid K. Chowdhury,R. Scott Summers,Lori Work,Natalie Smith,Lewis Rossman,James G. Uber,2007-03-01 Maintaining chlorine and chloramine residual is a key factor that determines potability of distributed water Decay of these disinfectants is affected by various water quality and infrastructure related factors Understanding the decay of residuals in the distribution system is critical with respect to safe delivery of drinking water and in developing water quality models that can be used by utilities for the operation of potable water delivery systems In order to comply with microbial and disinfection byproduct M DBP regulations water suppliers are continually investing in treatment processes for achieving greater levels of inactivation and DBP precursor removal As a result of these changes in water quality maintaining a disinfectant residual in the distribution system can be challenging Bench scale testing has been used to determine the effect of advanced treatment enhanced coagulation granular activated carbon adsorption ozonation biofiltration and ultraviolet irradiation on chlorine and chloramine decay Additional studies examine the effects of disinfectant dose

temperature pH blending and rechlorination The effects of water quality on pipe wall demand were evaluated using the distribution system simulator at the U S Environmental Protection Agency s Test and Evaluation Center Several models are developed regarding disinfectant decay making it easier to predict chlorine demand after changes in treatment The multi species water quality analysis and network path analysis extensions to EPANET will make the modeling package more robust and will allow utilities to predict chlorine residual at any point in their distribution system with greater confidence

Sci-tech News ,1999 **Disinfection By-products in Drinking Water** Tanju Karanfil,2008 This book is a collection of chapters on the latest international research findings including emerging issues and state of the art studies related to disinfection by product formation and control in drinking waters and treated wastewaters *Water Software Systems* B. Ulanicki,Bryan Coulbeck,John Paul Rance,2001 These conference proceedings reflect the current and future roles of modelling and optimization in the description and management of water industry systems Balanced views of academic and industry experts from around the world are included in the two volumes of papers Insights are provided into the experiences of leading researchers and practitioners in apply modelling and optimisation to the management of water quantity and quality **Water Treatment Plant Design 5/E** American Water Works Association,American Society of Civil Engineers,2012-07-10 THE MOST TRUSTED AND UP TO DATE WATER TREATMENT PLANT DESIGN REFERENCE Thoroughly revised to cover the latest standards technologies regulations and sustainability practices Water Treatment Plant Design Fifth Edition offers comprehensive guidance on modernizing existing water treatment facilities and planning new ones This authoritative resource discusses the organization and execution of a water treatment plant project from planning and permitting through design construction and start up A joint publication of the American Water Works Association AWWA and the American Society of Civil Engineers ASCE this defi nitive guide contains contributions from renowned international experts COVERAGE INCLUDES Sustainability Master planning and treatment process selection Design and construction Intake facilities Aeration and air stripping Mixing coagulation and flocculation Clarification Slow sand and diatomaceous earth filtration Oxidation and disinfection Ultraviolet disinfection Precipitative softening Membrane processes Activated carbon adsorption Biological processes Process residuals Pilot plant design and construction Chemical systems Hydraulics Site selection and plant arrangement Environmental impacts and project permitting Architectural design HVAC plumbing and air supply systems Structural design Process instrumentation and controls Electrical systems Design reliability features Operations and maintenance considerations during plant design Staff training and plant start up Water system security and preparedness Construction cost estimating *Water Research* ,1994 **Aqualine Abstracts** ,1989 **Dissertation Abstracts International** ,2008

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