

U.S. Environmental Protection Agency
Long Term 2 Enhanced Surface Water Treatment Rule: Uncovered Finished Water Reservoirs Public Meeting

April 24, 2012
EPA East Building, Room 1153
1201 Constitution Avenue, NW
Washington, DC 20460

MEETING AGENDA

Meeting Objectives:

- Discuss and solicit public input on data and information that may inform the regulatory review of the LT2 uncovered finished water reservoir requirement.
- Provide background information on the LT2 rule's uncovered finished water reservoir requirement.
- Provide an overview of the Six Year Review process and the requirement under SDWA that any rule revision "shall maintain or, provide for greater, protection of the health of persons."
- Engage in a scientific and technical discussion on data and information related to microbial occurrence of *Cryptosporidium*, *Giardia*, viruses and other pathogens/indicators in uncovered finished water reservoirs; perspectives on public health risks; strategies to control or remove contaminants in uncovered finished water reservoirs; and potential assessment approaches to determine the effectiveness of these control and/or removal strategies.

Meeting Procedures:

- People are participating in this meeting both in person and via telephone.
- Please speak only when recognized by the facilitator.
- The facilitator may request a break at any time during the meeting.
- It is critical to effective public process that we all respect each other's values and legitimacy of interests.
- There will be an opportunity for clarifying questions at the end of each presentation.
- The Participant Perspectives session is your opportunity to share scientific and technical data that reflect your understanding on the topic of the LT2 uncovered finished water reservoir requirement. Please sign up to make your comments and understand that there will be a 2-minute limit per commenter.
- Please limit your statement to the topics listed on the flipchart in front of room.
- Thank you in advance for adhering to these meeting procedures and for your participation.

8:00 – 8:30 Arrival – Please arrive early and bring photo identification to go through security

8:30 – 8:55

Welcome, Introductions, Meeting Objectives, Procedures, and Agenda

Objective: Review desired outcomes and agenda.

Pam Barr, Acting Director, Office of Ground Water and Drinking Water
Rob Greenwood, Ross & Associates, facilitator

8:55 – 9:30

Background Information on the LT2 Uncovered Finished Water Reservoirs Requirement

Objectives:

- *Provide an overview of the history and basis for the LT2 uncovered finished water reservoir requirement*
- *Provide status of numbers of systems that have covered/treated open reservoirs*

Presenter: Mike Finn, OGWDW, DWPD
(20 min + 15 min clarifying questions)

9:30 – 10:00

Regulatory Review Process

- *Objective: Provide an overview of the Six Year Review process for LT2*

Presenter: Wynne Miller, OGWDW, SRMD
(15 min + 15 min clarifying questions)

10:00 – 10:15

Break

10:15 – 11:05

Data/information related to microbial occurrence in uncovered finished water reservoirs

- *Objective: Share data/information related to microbial occurrence of Cryptosporidium, Giardia, viruses and other pathogens/indicators in uncovered finished water reservoirs.*

Presenters:
Kerri Alderisio, NYC DEP
Wylie Harper, Seattle Public Utilities
(30 min + 20 min clarifying questions)

11:05 – 11:30

Data/information related to potential health risks associated with contamination of stored finished water in uncovered reservoirs

Objectives:

- *Provide an overview of potential routes of contamination of stored finished water in uncovered reservoirs*
- *Provide an overview of the potential health risks associated with the zoonotic transmission of relevant LT2 pathogens (e.g., Cryptosporidium, Giardia, viruses) by particular animal species in the U.S. (e.g., mammals, reptiles, bird species, etc.) and emerging pathogens and/or genotypes of known pathogens with increased virulence.*

Presenter: Nick Ashbolt, Ph.D., EPA, ORD
(15 min + 10 min clarifying questions)

11:30 – 12:30

Lunch (on your own)

12:30 – 1:20

Strategies to control or remove contaminants, and potential assessment approaches to determine the effectiveness of these strategies

Objective: Provide insight to better understand the varied management approaches to control risk at reservoirs of those systems that have covered, treated or used other approaches and how the effectiveness of these management approaches have been or could be assessed.

Presenters:

Chris McMeen, Tacoma Water

David Lipsky, Ph.D., NYC DEP

(30 min + 20 min clarifying questions)

1:20 – 2:30

Participant Perspectives: Regulatory Review of LT2 Rule Uncovered Finished Water Reservoir Requirement

1. What additional information are you aware of regarding the potential public health risks from uncovered finished water reservoirs?
 - a. Pathogen occurrence?
 - b. Pathways to contamination?
 - c. Other aspects of risk?
2. What have we learned about pathogen risk management related to uncovered finished water reservoirs from implementation of the LT2 rule? From other data sources?:
 - a. Management options available?
 - b. Relative effectiveness and certainty of risk management practices?
 - c. Other aspects of risk management?
3. How would you assess the protectiveness of the different risk management options relative to the existing rule?

2:30 – 2:45

Break

2:45 – 3:50

Panel: Options and Opportunities for LT2 Rule Revisions

Objective: Obtain expert perspectives on the information provided and the observations made during today's discussions. Panelists will be asked to take no more than seven minutes each to respond to the questions above, based on the presentations, participant contributions, and their own knowledge of the issues. The panel moderator will then lead a discussion among the panelists to explore their perspectives.

- Panelist perspectives (35 minutes)
- Moderated discussion among panelists (30 minutes)
 - a. Taking into account today's presentations and discussions ,
 - i. What are the most promising strategies for managing risk from uncovered finished water reservoirs?
 - ii. What are the most promising approaches for assessing the degree of public health protection associated with these management options?
 - b. Where different perspectives exist regarding risks or management strategies, what do you see as the key basis for these differences?

Panelists:

- Chuck Haas, Ph.D., Drexel University
- Ed Hallock, State of Delaware
- Mark LeChevallier, Ph.D., American Water
- Leonard Schantz, City of Rochester
- Lynn Thorp, Clean Water

3:50 – 4:45

Additional Participant Perspectives: Opportunity to Supplement Panelist Perspectives or Continue Providing Comment on the Earlier Technical Presentations

1. Taking into account today's presentations and discussions,
 - a. What are the most promising strategies for managing risk from uncovered finished water reservoirs?
 - b. What are the most promising approaches for assessing the degree of public health protection associated with these management strategies?
2. Where different perspectives exist regarding risks or management strategies, what do you see as the key basis for these differences?

4:45 – 5:00

Wrap up/Next Steps

5:00

Adjourn