

## Minnesota 3M PFC Settlement

### Agenda for Drinking Water Supply Technical Subgroup 1 Meeting

Wednesday, April 15, 2020

1:00 p.m.-3:30 p.m.

#### WebEx link:

<https://abtassociates.webex.com/abtassociates/j.php?MTID=m5b96ce7a526c5d867360b86339c7269f>

*(If using WebEx, we request that you connect to the audio using your phone rather than the computer, and use the "Call me" option. Please refer to the WebEx instructions for more information.)*

Conference line (if not using the WebEx "Call me" option): 1-415-655-0002; Access code: 612 607 255#

#### Meeting Purpose:

- Achieve a common understanding of progress to date on Settlement activities
- Obtain subgroup feedback on the proposed Conceptual Drinking Water Supply Plan path forward
- Clearly identify next steps.

1. Welcome and updates a. Agenda b. Roll call c. WebEx instructions d. Updates	Jason Moeckel – DNR Gary Krueger – MPCA Terill Hollweg – Abt Associates Jeanne Goodman – Abt Associates	1:00 pm
2. Update on the Ion Exchange pilot study	Ryan Capelle – Stantec Joe Jacangelo – Stantec Gary Krueger – MPCA	
3. Ten minute Break		2:10 pm
4. Conceptual Drinking Water Supply Plan: Status update and proposed path forward	Hannah Albertus-Benham – Wood Shalene Thomas – Wood	
5. Public comments and questions	Terill Hollweg – Abt Associates Milt Thomas – MPCA	3:10 pm
6. Next steps: Upcoming activities and tasks, future meetings, and agenda items to request	Terill Hollweg – Abt Associates Jason Moeckel – DNR Gary Krueger – MPCA	

## Minnesota 3M PFC Settlement

### Drinking Water Supply Technical Subgroup 1 Meeting Notes

Wednesday, March 15, 2020

1:00 p.m.-3:30 p.m.

Webex Meeting

Group members in attendance:

Marian Appelt	Greg Johnson
Brian Bachmeier	Ray Kaiser
Chris Bryan	Gary Krueger
Ryan Burfeind	Jason Moeckel
Brian Davis	Karla Peterson
Dan DeRudder	Tony Runkel
Stu Grubb	Ryan Stempski
Jon Herdegen	Jim Westerman
Jessica Pilarski	

Presenters:

- Gary Krueger, Minnesota Pollution Control Agency (MPCA)
- Jason Moeckel, Minnesota Department of Natural Resources (DNR)
- Ryan Capelle, Stantec
- Joe Jacangelo, Stantec
- Joan Oppenheimer, Stantec
- Hannah Albertus-Benham, Wood
- Terill Hollweg, Abt Associates (Abt)

#### Welcome and updates

Gary Krueger (MPCA) welcomed the group and gave a short update on the listening sessions, one-on-one meetings, and work group meetings.

#### Update on the ion exchange pilot study

Ryan Capelle, Joe Jacangelo, and Joan Oppenheimer (Stantec) gave a detailed updated on the ion exchange pilot study in Cottage Grove. The purpose of the pilot study is to evaluate ion exchange as a potential treatment process for PFAS removal both as a standalone technology and in combination with granular activated carbon (GAC). Key topics of the presentation included: the strengths and weaknesses of ion exchange and GAC; the study design; the results to date; and the project's timeline. One issue that was noted was the presence of iron and its effects on the ion exchange system. While iron levels in Cottage Grove are low, the study had to install a pre-filtration system to remove iron before water entered the pilot system.

The Subgroup 1 members had a number of technical questions related to the ion exchange pilot study, in particular around the iron fouling and pre-filtration system. A subgroup member also requested that pre-filtration costs be considered in the Conceptual Drinking Water Supply Plan.

#### Conceptual Drinking Water Supply Plan: Status update and path forward

Hannah Albertus-Benham (Wood) presented an update on the Conceptual Drinking Water Supply Plan.

Hannah first discussed the scenario updates moving forward, including revising the water demands for some communities, making updates to the groundwater model, and refining costs, among other items. Hannah also mentioned a few additional items that are being worked on, including: AECOM conducting a peer review of the groundwater model; and DNR modeling the scenarios using the White Bear Lake model.

Hannah then discussed next steps for the development of the Conceptual Drinking Water Supply Plan. Wood will continue to incorporate work group and Subgroup 1 feedback into the scenario modeling and costing, and revise the scenarios through May. Then, the Co-Trustees will begin refining the scenarios and developing their good/better/best recommendation.

Subgroup members had the opportunity to ask questions. Work group comments and questions included:

- One subgroup member asked about the discrepancies between health index (HI) values. Wood explained they have adjusted the data, however the maps that were shared recently did not include the updated data.
- One subgroup member requested the full list of the comments that Wood received on the draft Conceptual Drinking Water Supply Plan and responses to each comment.

### **Public comments and questions**

Members of the public were given the opportunity to ask questions. There were no comments or questions from the public.

### **Next steps**

Terill Hollweg (Abt) presented next steps:

- March – May: Wood will update the scenarios, including costs, and present the results to the Co-Trustees
- Future tasks: The Co-Trustees will refine the scenarios and develop their good/better/best recommendations.

The subgroup will discuss key considerations for the Conceptual Drinking Water Supply Plan at the May meeting.