

MINUTES

April 28, 2016

A meeting of the Technical Advisory Committee (TAC) of the Shingle Creek and West Mississippi Watershed Management Commissions was called to order by Chairman Richard McCoy at 8:34 a.m., Thursday, April 28, 2016, at Crystal City Hall, 4141 Douglas Drive North, Crystal, MN.

Present were: Andrew Hogg, Brooklyn Center; Jesse Struve, Brooklyn Park; Mark Ray, Crystal; Rick Lestina, Maple Grove; Bob Paschke, New Hope; Ben Scharenbroich, Plymouth; Richard McCoy, Robbinsdale; Ed Matthiesen and Diane Spector, Wenck Associates, Inc.; and Judie Anderson, JASS.

Not represented: Champlin, Minneapolis, and Osseo.

- I. Motion by Scharenbroich, second by Hogg to approve the **agenda**.* *Motion carried unanimously.*

[Ray arrived 8:35 am.]

- II. Motion by Scharenbroich, second by Hogg to approve the **minutes of the March 24, 2016 meeting**.* *Motion carried unanimously.*

[Lestina arrived 8:43 am.]

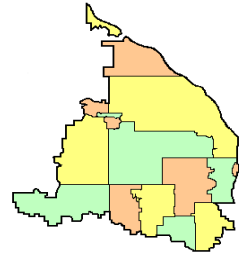
III. Potential Revisions to Rules and Standards.

Several items were discussed by the Commissions at their March 10, 2016 meetings. The Commissions have asked this group to discuss these potential revisions and make recommendations for any rules and standards changes.

A. Drinking Water Protection. The Commissions' rules and standards prohibit infiltration within the one year time-of-travel zone of any drinking water well. This is very broad and in some cases infiltration of runoff from certain types of impervious may be allowable. We've been working with some other WMOs to refine those definitions. In Staff's April 25, 2016 memo* is a diagram Matthiesen developed based on his discussions with local, state and EPA officials. The concept is to create zones around municipal drinking water wells based on modeling completed for the local Wellhead Protection Plans. Infiltration would be prohibited in the zone closest to the well, with infiltration limitations becoming less restrictive the further away from the well. A second figure shows the location of municipal Emergency Response Areas (ERAs) and Drinking Water Supply Management Areas (DWSMAs) across the Shingle Creek and West Mississippi watersheds as of September 2014. Many of these areas are being remodeled as cities are updating their Wellhead Protection Plans. In some cases, the DWSMAs have changed considerably. Included in the meeting packet is a set of figures* from the City of Brooklyn Center showing the remodeled zones and how they compare between the old and the new.

The members considered the following:

1. Is this something we want to consider?
2. Does it seem workable and fit in with your other WHP responsibilities?



3. Since so much of Shingle Creek is within a DWSMA, for administrative ease should the whole watershed outside the ERAs be treated as a Zone C?
4. How should DWSMA vulnerability be taken into account?
5. What other concerns do you have?

There was a consensus to have one standard across both watersheds rather than just within wellhead protection areas.

Query: What contaminants are we looking at? Which are of most concern? Does our augmented section do that? Salt, bacteria, phosphorus, PCBs.

Matthiesen will look at sand profiles vs. other soil profiles.

This topic will come back to the TAC at their May 26 meeting.

B. Sidewalks and Trails. Linear projects such as sidewalks and trails do not lend themselves well to traditional bioinfiltration BMPs to accomplish the 1.3” of infiltration needed to meet water quality and infiltration requirements. These linear projects are typically sloped to sheetflow runoff to the boulevard or shoulders of the trails. Included in Staff’s memo was a preliminary standard that would allow the applicant to meet that requirement by amending the soil receiving the sheetflow to a certain width depending on soil type.

It was noted that not all cities have adequate space to accommodate the desired width. Most indicated they would rather amend soils than search for right-of-way. The members asked Staff to determine whether the width of the infiltration area could be reduced with additional soil amendment. Staff was directed to bring back as a practice.

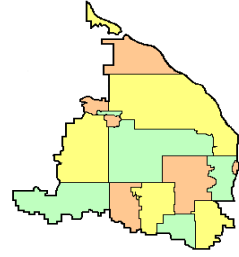
C. BMP Banking. At a previous TAC meeting the members discussed the subject of BMP banking. For example, a City has an opportunity to install a BMP with a project that would not require it, or that would go above and beyond what the Commission requires. Can they “bank” that extra treatment capacity to be used on a future project where treatment is required but infeasible? This would be similar to wetland banking.

Questions to consider:

1. Is this feasible?
2. Under what circumstances would it be allowable?
3. Should the use of credits be limited to projects draining to the same receiving water?
4. How it would be documented?

The members were amenable to this practice as long as the banking occurs in the same drainage area.

D. Sump Sizing Standardization. Staff discussed establishing sizing standards for sump manholes based on the model SHSAM and on a method set forth by the EPA. The members also discussed methods that can reduce the overall size of the sump by incorporating hydrodynamic separation. Two economical options are SAFL Baffle (<http://upstreamtechnologies.us/products/safl-baffle>) or The Preserver™ (<http://www.momentumenv.com>), both of which have design guidelines for optimal water quality treatment. Staff will return with a written standard sizing procedure for the TAC to review.



IV. Grant Updates.

A. Connections at Shingle Creek. Additional rock was brought in to stabilize the stream banks downstream of Monkey Falls. Tree removal has begun.

B. Public Art Reaeration Project. Thirty artists met last week to learn about the public art phase of this project. The RFP will go out on May 17.

C. Iron/Biochar Enhanced Sand Filters Project. Discussion about installation will begin in a month.

D. McCoy informed the members that the permit for the **Crystal Lake Flocculation project** is in the process of being renewed. Certain permitting values are being reviewed.

V. Other Business.

The **next meeting** is scheduled for May 26, 2016 at 8:30 a.m. at Crystal City Hall.

The meeting was adjourned at 9:53 a.m.

Respectfully submitted,

Judie A. Anderson

Recording Secretary

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