

Workshop Meeting
South Washington Watershed District
Wednesday December 18, 2013
2:00 p.m.
Woodbury Public Works Building
2301 Tower Drive, Woodbury, MN

1. Call to Order

Manager Lavold called the meeting to order at 2:00 p.m.

Roll Call:

Jack Lavold – President
Denny Hanna-Vice President
Brian Johnson- Vice President
Mike Madigan – Treasurer
Don Pereira – Secretary

Staff:

Matt Moore, SWWD Administrator
John Loomis, SWWD Water Resources Specialist
Melissa Imse, Office Manager
Jack Clinton, SWWD Attorney

Others:

John Burbank, Senior Planner, City of Cottage Grove
Mark Deutschman, Houston Engineering
Mike Lawrence, Houston Engineering
Stephanie Johnson, Houston Engineering
Larry Kramka, Houston Engineering
Jim Stoker, CAC Committee

2. Ravine Lake Management Plan

- Purpose-In December 2012, the SWWD Board of Managers authorized work on an updated management plan for the Ravine Lake watershed. The purpose of the project was to provide a current management plan for the lake and watershed that would guide SWWD management as development occurs.
- Overview-Stephanie Johnson with Houston Engineering presented an overview of the Ravine Lake Management Plan. Main points included: Current conditions and future build out conditions, development of a P8 water quality model for the Ravine Lake watershed, and phosphorous loading capacity under full development.
- In August 2013, the SWWD Board of Managers adopted the Ravine Lake Management Plan as a guidance document in compliance with the SWWD Watershed Plan 2007, as amended.

3. Erosion Impacts Study

- Background-The SWWD retained Houston Engineering to update previous outdated studies, which evaluated the potential for channel instability as a result of the Central Draw Storage Facility (CDSF) Overflow project.
- Overview-Mike Lawrence with Houston Engineering presented an overview of the updated erosion impact study. The study evaluated the channel stability issues for three land use conditions; existing conditions, build out conditions, and with the overflow project conditions. An analysis was also completed on potential impacts to water quality, and mature trees within the ravine.
- Results:

- Flood extends resulting from the CDSF overflow project. The extends or amount of area inundated during the peak discharge to the East Ravine as a result of the CDSF project is nearly the same for all three scenarios. The area inundated is located almost completely within the park and no homes or buildings are impacted.
- Erosion Potential. The potential for the ravine to erode is characterized by sheer stress and maximum water velocity within the ravine. Erosion within the ravine and the need for stabilization is an existing problem. The analysis shows that the erosion potential under existing conditions is high, and would require the same amount of stabilization with or without the CDSF overflow project. The stabilization measures selected will take into account effectiveness at stabilizing the reach, cost effectiveness, and the aesthetic needs for the Cottage Grove Ravine Regional Park.
- Potential Impacts to Mature Trees. Tree mortality occurs when the depth of the water is sufficient to submerge the tree crown for sufficient duration to result in oxygen loss within the soil. A study completed on tree mortality using the three land use conditions showed almost the same amount of flooding of the trees. The study determined that flooding of the trees for less than 30 days during the growing season of one year was insufficient to kill any established tree. Based on maturity of the trees in the assessment area and the shallow flood depths associated with the flow in the ravine, the long term viability of the trees located within the ravine will not be impacted by flows and no long term impacts from inundation would be anticipated.
- Water Quality Impacts to Ravine Lake. Although the CDSF overflow project will discharge infrequently to the ravine and add water to Ravine Lake, various methods were used to assess the potential adverse or beneficial impacts to water quality of Ravine Lake. Based on data collected, water collected from the CDSF overflow project is not expected to degrade the water quality of Ravine Lake.

4. **CDSF Overflow Phase II-V Environmental Assessment Worksheet (EAW)**

- At the December 10 SWWD Board meeting, the Managers approved the scope and budget for Houston Engineering to develop a voluntary EAW for phases II-V of the CDSF overflow project. The goal of the voluntary EAW will be to work through any agency concerns. Larry Kramka with Houston Engineering was present to review the EAW process and timeline.

A motion to adjourn the SWWD Workshop meeting at 4:20 p.m. was made by Manager Johnson and seconded by Manager Pereira. Motion carried unanimously.

Respectfully submitted,



Melissa Imse, Administrative Assistant

Approved By:



Mr. Donald Pereira, Secretary

1/14/04
Date