

**NORTH MILL CREEK/DUTCH GAP CANAL
WATERSHED PLANNING MEETING
JUNE 30, 3:00 TO 5:00 PM**

This meeting summary and all meeting materials can be found at www.lakecountyiil.gov/Stormwater/LakeCountyWatersheds/NorthMill.htm

1. *Introductions & Announcements*

Patty Werner, Planning Supervisor, Lake County Stormwater Management Commission (SMC) welcomed new and returning stakeholders. This was followed by meeting participants introducing themselves. A list of the meeting attendees is included with this report.

2. *Review and accept June 3 meeting summary*

There were no comments on the June 3 meeting summary and it was accepted by consensus.

3. *“Getting to Know” Lake County Public Works Department*

Chuck DeGrave from the Lake County Public Works Department (LCPWD) described the Water Reclamation Facility located east of Hunt Club Road in Old Mill Creek. While the facility is located just outside of the watershed boundary, the North Mill Creek / Dutch Gap Canal watershed is serviced by the treatment plant. As part of an expansion of the plant and future expansion planning efforts, the (LCPWD) has assembled a Technical Advisory Group (TAG) consisting of environmental advocacy groups, municipalities, and regulatory agencies. The group has worked together in a cooperative manner to develop recommendations that take a holistic view of the treatment area (that includes NMC/DGC watershed) to improve water quality. A copy of the presentation, which includes a summary of these recommendations, is included with this meeting summary on the SMC website.

4. *Presentation followed by questions/comments regarding:*

a. *Lake County SMC Stream Inventory Summary - Mike Prusila of SMC*

Mike summarized the stream inventory conducted by SMC in the summer of 2007. SMC inventoried approximately 22 miles of stream and had collected information regarding the physical channel conditions, discharge points, riparian corridors, and aquatic habitat. The stream was divided into 34 separate reaches for evaluation purposes. This information was qualitatively evaluated and “reaches” were rated based upon the percentage affected by a given characteristic. Overall the watershed exhibited low pool/riffle development, moderate bank erosion, moderate sediment accumulation, and half of the stream reaches were affected by problematic debris loads. Hydraulic structures and discharge points were also inventoried and evaluated. The presentation, which includes more

specific details and maps, is included with this meeting summary on the SMC website. The stream inventory data is also available and can be obtained by contacting Jeff Laramy with SMC at jlaramy@lakecountyiil.gov or 847-377-7709. A question was posed during the presentation about the status of the Rasmussen Lake Dam removal project. The Forest Preserve representative stated that the project is going through the permitting process and construction is not anticipated for at least 1 year.

b. *Natural channel restoration and stream maintenance - Leslie Berns of the Lake County Forest Preserve District*

Leslie discussed and showed pictures of the typical features that are found in streams in an urbanized environment: undercut banks, trees with exposed roots along shorelines, eroded banks, and lack of vegetation. She explained that the key to the success of a streambank stabilization project is understanding how a stream works and the processes that comprise the motion of erosion and deposition. She focused on an equation that correlated sediment load, sediment size, stream slope, and stream discharge with the degradation or aggradation of a stream. A discussion took place between Leslie and the stakeholders in which various scenarios were evaluated to determine how they would affect the equation and ultimately the degradation / aggradation of a stream. She then showed examples of stabilization projects that she had been involved in, and stressed that knowing all elements of the equation prior to design was necessary for an effective rehabilitation. An example was the Springbrook Stream meander project that has been successful in keeping the erosion / sediment process balanced by reconfiguring the stream to an elevation that allowed it to access its floodplain, by decreasing the stream slope through lengthening the stream by creating meanders, and using natural materials and native vegetation. More information about the Springbrook Creek restoration can be found on the DuPage Forest Preserve's website at www.dupageforest.com/page.aspx?id=4294967542. A copy of the presentation is attached to this report.

5. *Review of Plan Goal Statements*

The draft goal statements were distributed, but it was decided to review and finalize these at a later meeting due to time constraints. They are attached to this meeting summary for review and comment by the stakeholders.

NORTH MILL CREEK/DUTCH GAP CANAL WATERSHED PLAN DRAFT GOAL STATEMENTS- MAY 2010

- 1) Reduce flood damage to structures and infrastructure and the increasing flooding of farmland, and prevent flood damage from worsening in the watershed. (Outcome: reduction in flood damage to structures and infrastructure and reduction in farmland flooding)
- 2) Improve water quality by eliminating present impairments in lakes, streams and wetlands; and protect water quality by implementing land development and management practices that prevent pollution. (Outcome: water bodies are not impaired and future pollution is prevented)
- 3) Protect, enhance and restore the health of stream and lake ecosystems. (Outcome is to have healthy lakes and streams.)
- 4) Protect, enhance & restore natural resources through the expansion of preserved open space areas as green infrastructure reserves, maintaining hydrology and buffers for high quality areas, and employing good natural resource management practices. (Outcome: natural resources are protected, enhanced, or restored)
- 5) Use a system of both site level green infrastructure practices and regional greenways to protect and enhance water quality and natural resources, and increase connectivity of natural areas. (need to differentiate this from previous goal.) (Outcome: site level and regional green infrastructure system is established)
- 6) Guide new development design and practices to protect or enhance existing water resources, natural resources and open space. (Outcome: New development occurs without impairing water resources, natural resources, and open space)
- 7) Provide watershed stakeholders with knowledge, skills and motivation needed to implement the watershed plan. Watershed stakeholders include (but are not limited to) residents, property owners, government agencies and jurisdictions, and developers. (Outcome: stakeholders have adequate information to implement the watershed plan)
- 8) Encourage the farmland preservation programs and sustainable agricultural practices that protect or enhance watershed resources, water quality and reduce flood damages. (Outcome: The plan encourages farmland preservation and sustainable agriculture practices that protect/enhance watershed resources and reduce flooding)

June 30, 2010 Meeting Attendees

Last Name	First Name	Organization
Anderson	James L.	Lake County Forest Preserve Dist.
Berns	Leslie	Lake County Forest Preserve Dist.
Burt	Randy	NeuHaven HOA
DeGrave	Chuck	Lake County Dept. of Public Works
Francis	Sandy	State Senator Michel Bond
Helkner	Craig	Wisconsin DNR
Kirkman	Randy	Town of Bristol
McCarthy	Jodi	Lake County Stormwater Mgmt.
Prusila	Michael E.	Lake County Stormwater Mgmt.
Renwick	Jim	Renwick Nursery
Settenland	Burt	
Tomkins	Scott	IEPA - via conference call
Vrazda	Rasto	Abbott
Werner	Patricia	Lake County Stormwater Mgmt.
Wilson	Don	
Yamin	Yamin	James Anderson Company, Inc.

North Mill Creek/Dutch Gap Canal Watershed Plan **Contact and Information Sheet**

For questions pertaining to the watershed plan or watershed planning process, please contact the project team:

Lake County Stormwater Management - www.lakecountyil.gov/Stormwater

- Patty Werner - 847-377-7717 - pwerner@lakecountyil.gov
- Jodi McCarthy - 847-377-7711 - jmccarthy@lakecountyil.gov
- Mike Prusila - 847-377-7713 - mprusila@lakecountyil.gov

You can follow the planning process and view meeting documents at:

www.lakecountyil.gov/Stormwater/LakeCountyWatersheds/NorthMill.htm

Lake County Health Department - www.lakecountyil.gov/Health

- Mike Adam - 847-377-8002 - madam@lakecountyil.gov
- Kathy Paap - 847-377-8021 - kpaap@lakecountyil.gov

Lake County Planning Building & Development - www.lakecountyil.gov/Planning

- Tom Chefalo – 847-377-2120 - tchefalo@lakecountyil.gov

Kenosha County Department of Planning & Development - www.co.kenosha.wi.us/plandev

- Daniel Treloar – 262-857-1895 - dtreloar@co.kenosha.wi.us

Lake County Forest Preserve - www.lcfdp.org

- Jim Anderson – 847-968-3282 - janderson@LCFPD.org
- Leslie Berns - lberns@LCFPD.org

Illinois Environmental Protection Agency - www.epa.state.il.us/water/surface-water

- Joe Marencik - 847-294-4110 - joe.marencik@illinois.gov

Southeastern Wisconsin Regional Planning Commission - www.sewrpc.org

- Michael Hahn - 262-547-6722 Ext. 243 - mhahn@sewrpc.org

Natural Resources Conservation Service - www.wi.nrcs.usda.gov

- Jerry Hebard - 262-878-1243 ext 108 - jerry.hebard@wi.usda.gov

Lake County Department of Public Works – www.lakecountyil.gov/PublicWorks

- Chuck DeGrave – 847-377-7140 - cdegrave@lakecountyil.gov