



# Bull Creek-Bull's Brook Watershed Council

**Thursday, June 16, 2016**

**1:00 – 3:00 PM**

University of St. Mary of the Lake  
1000 East Maple Avenue  
Mundelein, Illinois 60060

## **Meeting Report**

### **I. Welcome and Introductions**

Patty Werner, Lake County Stormwater Management Commission (SMC) welcomed attendees who introduced themselves. A list of attendees is attached.

### **II. Review/Accept September and February Meeting Reports** – Patty Werner asked if there were any changes needed for the previous meeting reports. They were approved by consensus.

### **III. St. Mary of the Lake University** Clayton Kalweit, Vice President of Facilities Clay welcomed everyone to the University and introduced Mike Sweeney St. Mary's Superintendent of Facilities to the group. St. Mary's has been working closely with the Lake County Health Department on lake issues; is removing invasive plants; and participated in an energy efficiency program that has resulted in substantial government rebates.

### **IV. Results of 2015 Lake Studies in the Watershed – Loch Lomond, St. Mary's, Butler Lakes and Lake Minear-** Gerry Urbanozo, Lake County Health Department (LCHD) Gerry presented the results of the 2015 lake studies completed by the LCHD. His presentation has been posted on the SMC website at <https://www.lakecountyil.gov/2380/Bull-Creek>.

Additional highlights of the findings and recommendations:

- Butler Lake is a natural lake, Loch Lomond and St. Mary's Lake were created by dams, Lake Minear is a former gravel pit.
- Total suspended sediment (TSS) has improved in all of the lakes since they were last assessed. Lake Minear has no measureable TSS.
- Suspended sediment is more of an issue for Loch Lomond and St. Mary's Lake.
- Aquatic plants make a difference for lake health. 30% aquatic plant coverage is recommended. Loch Lomond and St. Mary's have few aquatic plants. Butler Lake and Lake Minear have healthy aquatic plant communities. Aquatic plants tend to grow better in natural lakes.
- Loch Lomond and St. Mary's have more algae blooms because they do not have sufficient aquatic plants. Residents should contact the LCHD if concerned about toxic blue green algae blooms.
- Shoreline erosion has worsened at St. Mary's and Lake Minear since they were last assessed. LCHD recommends rock cobble where needed and 25 foot wide native plant buffers be used for shoreline stabilization rather than seawalls. The plastic crate system that was installed on the Butler Lake shoreline when it was restored is holding up very well.
- University staff, the LCHD and the Illinois Department of Natural Resources (IDNR) removed 600 carp from St. Mary's this spring and intends to repeat the



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removal in the fall. IDNR estimates that 600 carp represents less than 10% of the carp population. Carp are non-native and disturb and re-suspend bottom sediments impacting water quality and aquatic habitat. LCHD is working with the University on a plant/carp enclosure study along the lake shoreline. Aquatic plants have been installed and enclosed with fencing to keep the carp out to see if the plants will establish in the lake if the carp do not disturb them.

- The LCHD works with Volunteer Lake Monitors (VLM) and would like to recruit VLMs for St. Mary's Lake.
- LCHD recommends that a long term lake management plan (5-10 years) be developed and implemented for each lake. They will be conducting a workshop in the fall of 2016 on how to develop a lake management plan.

## V. Watershed project updates

- a. Mundelein Park District Bull Creek/Community Pond Restoration – Derek Solberg reported that the project is on track for completion. IL EPA has reviewed and approved the project design, permit applications have been submitted, and site clearing/preparation has begun.
- b. Libertyville Township Trail and Birdscaping Project – Kathleen O'Connor presented the new trail that will connect the Bull and Timber Creek subdivisions to the Casey Road trail and the larger Des Plaines watershed trail. The trail will be completed in June and grand opening is scheduled for July 23, 2016. Kathleen's presentation is available on the SMC website: <https://www.lakecountyil.gov/2380/Bull-Creek>.

### Watershed project countywide 319 grant proposals

- c. Libertyville Township's Casey Road Restoration Project – Kathleen O'Connor described the Township's collaboration with Conserve Lake County, the Donnelly Foundation and SMC to restore 44 of the total 303 acres of Township open space district lands planned for restoration along Casey Road.
- d. University of St. Mary Bull Creek Streambank Restoration – Clayton Kalweit described a proposal to remove debris blockages and restore streambanks on Bull Creek from Route 45 to the lake and downstream of the lake dam. Part of the creek channel is owned by multiple residents and the University is exploring options for including those sections of Bull Creek in the project also.  
The Village of Mundelein has received complaints/inquiries from these residents about erosion along Bull Creek on their properties.

- ## VI. Update on the Des Plaines River Watershed Plan
- Ashley Warren provided an update on the Des Plaines River (DPR) watershed planning area and process. Bull Creek-Bull's Brook is a subwatershed of the Des Plaines and will be included in the umbrella plan watershed plan. Ashley's presentation is available on the SMC website at: <https://www.lakecountyil.gov/2380/Bull-Creek>. The current (2008) Bull Creek-Brook watershed plan will be updated and appended to the larger DPR watershed plan. The Bull Creek-Brook Watershed Council will be asked to participate in a review and update of the watershed action plan in 2017. A stream inventory of Bull Creek and Bull's Brook was conducted in fall of 2015 for the plan update. The results are available in an on-line application at: <https://www.lakecountyil.gov/3658/Stream-and-Detention-Basin-Inventories>. SMC will compare the results with the previous inventory to assess changes.

- ## VII. Update and Approval of the 2016 BC-BB Council Work Plan
- Patty Werner reviewed the draft 2016 work plan that was amended at the January 2016 meeting with



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the group. Fritz Cheek moved that the work plan be adopted, Clay seconded the motion and the Council approved the 2016 work plan. The work plan is attached to this report.

- VIII. Next Meeting:** October 13, 2016 1-3 PM at Mundelein High School
- IX. New Business** - none
- X. Adjourn** – adjourned at 2:40
- XI. Tour of St. Mary Campus** – Clay invited participants to walk around the campus on their own following the meeting.

DRAFT

**BULL CREEK-BULL'S BROOK WATERSHED COUNCIL MEETING, JUNE 16, 2016**

**Attendees - St. Mary of the Lake University / Mundelein Seminary, 1 PM**

CHECK-IN	LAST NAME	FIRST NAME	ORGANIZATION
X	Baade	Tony	Loch Lomond
X	Cederberg	Damon	Libertyville Township
X	Chesek	Fritz	Loch Lomond Propertyowners Assn.
X	Chung	Fred	Village of Libertyville
X	Cisek	Frank	Mundelein Alumni/Past Seminary Visitor
X	Cowski	Jacob	Libertyville Township
X	Doyle	KC	Lake County Administrator Office
X	Duba	Nona	Resident
X	Emde	Luke	Kildeer Countryside School CCSD #96
X	Emde	Barbara	Loch Lomond North Beach Director
X	Emmerich	Bill	Village of Mundelein
	Geary	Mike	Libertyville Township
X	Hansen	John	Loch Lomond Resident
X	Happ	Jonathan	Libertyville Township
X	Harris	Sharon	Brookhill HOA
X	Heinz	Michael	Village of Libertyville
X	Kalwleit	Clayton	Mundelein Seminary
X	Lindquist	Andrew	Libertyville Township
X	Meehan	Michael	Grand Dominion - Mundelein
X	Meier	Robin	Loch Lomond
X	Mieszala	Mike	Warren Township H.S.
X	Neal	Jack	Libertyville Township
X	Neu	Dave	Conserve Lake County
X	O'Connor	Kathleen	Libertyville Township
X	Ryan	Patrick	Libertyville Township
X	Ryan	Timmy	Libertyville Township
X	Schlapper	Peggy	Brookhill HOA
X	Schmidt	Henry	Libertyville Township
X	Solberg	Derek	Mundelein Park & Recreation Dist.
X	Soliz	Maggie	AES
X	Sweeney	Michael	Mundelein Seminary
X	Urbanozo	Gerard	Lake County Health Department
X	Vancil	Susan	SMC
X	Warren	Ashley	SMC
X	Werner	Patty	SMC

# Bull Creek-Brook Watershed Council 2016 Work Plan

Strategy	Status	Lead(s)
1. Bull Creek-Brook Watershed Council (BC-BB WC) will meet 3 times in 2016	February 16, 2016 Conserve, June 16, 2016 USML, October 13, 2016 Mundelein HS	Leadership T./ Kathleen/Patty
2. Develop annual work plan (budget sufficient to contract for E-News design/editing)	Work Plan Draft February 2016/ Finalized June 2016	Ken/Paul/Patty/Kathleen Watershed Council
3. Produce 3-4 E-News updates. (One issue will focus on BMP training)	<p>June 2016 E-News - Topics To Include:            Lake Lomond – Fritz            Lake County Audubon Society’s Rt. 137 Birdscaping Project – Geiselharts            Invasive Species Highlight – Jon            Bull Creek Trail Project Update – Kathleen            Casey Road Restoration Update – Kathleen            Upcoming Events – All contribute            Call for Volunteers – Highlight volunteer opportunities – all contribute            It was suggested that Valerie write an article on how public bodies address water safety for ground water.</p> <p>Summer            Fall</p> <ul style="list-style-type: none"> <li>• Community chloride reduction success stories</li> </ul>	Kathleen/Patty/Ken
4. Identify 3-4 educational messages for community websites, newsletters, high school projects	<p>Need to promote these topics for posting on community/organization websites and newsletters.</p> <p>Suggestions for future articles/features for messages include:</p> <ul style="list-style-type: none"> <li>• Summary of findings on WQ monitoring</li> <li>• Highlight lake management</li> <li>• What to expect if your community reduces road salt use</li> <li>• Economic benefits of protecting the watershed</li> <li>• Drinking water safety (article in Tribune about how phosphates are added to water at the water plants to coat the inside of pipe)</li> <li>• Impacts of impervious cover</li> <li>• Good/watershed-friendly practices based on the season.</li> <li>• Invasive plant feature</li> <li>• Increased engagement of the high schools and possibly the middle schools was identified as a priority for 2016.</li> </ul>	Leadership T./ Kathleen/Ken/Patty

<p>5. ID watershed champion for each community/organization and compile list. Involve high schools and additional HOAs. (lower priority)</p>	<ul style="list-style-type: none"> <li>• Council members will provide community contacts as they are identified: <ul style="list-style-type: none"> <li>▪ Libertyville: Paul Kendzior, Village Engineer</li> <li>▪ Mundelein: Holly Kim</li> <li>▪ Grayslake: Elizabeth Davies?</li> <li>▪ Libertyville Township: Kathleen O'Connor</li> <li>▪ Warren Township: Sue Simpson?</li> <li>▪ Fremont Township: Alesha Dodd or Diana O'Kelly</li> <li>▪ Libertyville High School: Dave Lapish LEAF Club</li> <li>▪ Prairie Crossing Charter School: Geoff Deigan, Naomi Hershiser</li> <li>▪ Warren Township High School: Mike Meizela</li> <li>▪ St. Mary's University: Clayton Klaweit</li> <li>▪ Mundelein Park District: Margaret Resnick</li> <li>▪ Grayslake Park District: (Jeff Nehilia?)</li> <li>▪ Liberty Prairie Foundation: Brad Leibov, Nathan Aaberg</li> <li>▪ Conserve Lake County: Sarah Surroz/Dave Neu</li> <li>▪ Liberty Prairie Area Homeowner Assn: Chris Geiselhart</li> <li>▪ Prairie Crossing HOA: Joe Marencik</li> <li>▪ Loch Lomond POA: Fritz Chesek &amp; Robin Meier</li> <li>▪ Arbor Vista HOA: Rick Hoppel</li> <li>▪ SMC: Patty Werner</li> </ul> </li> </ul>	<p>Leadership T.</p>
<p>6. Reduce road salt usage watershed wide.</p>	<p>Lake County Training Workshops October 4 &amp; 5, 2016</p> <ul style="list-style-type: none"> <li>• Need to meet with Innovation Park</li> <li>• Conversations with watershed communities on what salt reduction BMPs are being implemented</li> <li>• Suggest having the identified community champions promote salt reduction in their organizations</li> <li>• Promote cost savings with use of best practices</li> <li>• Continue to develop APWA partnership including participation in the snow plow obstacle course event?</li> </ul>	<p>Patty/Mike Adam/Susan Vancil</p>
<p>7. Develop list of contacts for volunteer work Organize or support one education/stewardship event/project</p>	<p>Incl. in E-News: Participate in in volunteer share with Chicago Wilderness to provide days of service for corporate volunteers Add information about opportunities for volunteers on Sustainable LC webpage</p>	<p>Leadership T.  KC Doyle</p>
<p>8. Convene a "planner's forum" for community planners to include watershed recommendations in other community plans.</p>	<p>Representatives from Libertyville, Mundelein and Grayslake will be asked to attend watershed meetings and share community initiatives at meetings and in news articles.</p>	<p>Leadership T.</p>

<p>9. Partner with Conservation@Home to host training for riparian landowners on best lawn maintenance practices, managing stream buffers, controlling invasives.</p>	<p>Mundelein Park District is interested in participating for Diamond Lake and Bull Creek.</p> <p>Brookhill subdivision would also be interested in participating in this training opportunity.</p> <p>Showcase certified properties in the watershed – host garden walk?</p>	<p>Margaret Resnick</p> <p>Peggy Schlapper/Sharon Harris</p> <p>Conserve</p>
<p>10. Review progress status and update the watershed action plan.</p>	<p>2016: The umbrella Des Plaines River watershed plan proposed by SMC for the DRWW is planned to include an action plan update for the BC-BB watershed plan.</p>	<p>Patty/Kathleen</p>

Additional Notes:

Judy Beck recommended as potential future speaker to discuss safe drinking water

Lake County Health Department is offering a reduced rate for WQ testing