

**Municipal Advisory Committee - MEETING AGENDA**

**April 10, 2019, 9:00-11:00 AM**  
**Lake County Central Permit Facility**  
**500 W. Winchester Rd., 2nd Floor, Libertyville, IL**



**STORMWATER MANAGEMENT COMMISSION**

- I. Introductions** [5]
- II. Approval of Minutes**
  - a) Approval of December 2018 Meeting Minutes
- III. NPDES Municipal Stormwater Program**
  - a) MAC updates, Ernesto Huaracha, SMC [10]
    - i. Amended MAC By-Laws
    - ii. YR16 Annual Facilities Reporting Template
    - iii. MS4 Survey Proposed Questionnaire
    - iv. Misc. Updates
  - b) West Park-- Village of Wilmette [40]
    - Brigitte Ann Berger, Director of Engineering and Public Works
    - Mike Young, Senior Vice President of RJN Group
- IV. Ordinance Administrative Issues**
  - a) TAC Meeting Schedule for 2019 and Bulletin 70 Update [15]
    - Kurt Woolford, SMC
- V. SMC/Community Working Relationships**
  - a) The RainReady Community Tool: A Tool to Assist Stormwater Management Planning in Northeastern Illinois [40]
    - Dawn Walker, CNT Director of RainReady
    - Peter Haas, CNT Chief Research Scientist
- VI. Inter-jurisdictional Programs, Projects and Grants Forum**
  - a) Inter-jurisdictional Programs - **No Action**
    - i. Fremont Township GIS/Asset Inventory Program [20]
      - Herb Riedel, Fremont Township
  - b) Projects - **No Action**
  - c) Grants Forum - **No Action**
- VII. Upcoming Training Opportunities, Meetings, Events**
  - a) Lake County SMC DECI Workshop, April 11, 2019,
  - b) Snow and Ice Leadership Summit, April 17, 2019, This leadership summit is for decision makers and leaders from both the public and private sectors. The target audience is Public Works

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Directors, Property Managers, and others who help drive policy and lead winter maintenance operations.

### VIII. Other Topics for Discussion

- a) Any MS4/NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email [ehuaracha@lakecountyil.gov](mailto:ehuaracha@lakecountyil.gov).
- b) If you are not receiving email notifications regarding MAC, please email [ehuaracha@lakecountyil.gov](mailto:ehuaracha@lakecountyil.gov) to be added to the digital email distribution list.

### IX. Next Meeting

- a) December 11, 2019
- b) 2019 Schedule

### X. Adjourn

\*\*\*PDHs are self-reporting. If you want to apply MAC meetings towards your professional license keep the agenda and minutes w/sign in sheets.  
\*\*\*MS4 Program BMP fulfillment. If you want to apply MAC meetings and education towards your MS4 Program YR17 BMP Measurable Goals, keep the agenda and minutes w/sign in sheets.



**STORMWATER MANAGEMENT COMMISSION**

**Municipal Advisory Committee  
2019 Meeting Schedule**

Pursuant to the Open Meetings Act, public notice is hereby given that the Lake County Stormwater Management Commission's Municipal Advisory Committee (MAC) will meet as shown below at 9:00 a.m. at the Lake County Central Permit Facility, 2nd Floor Conference Room, 500 W. Winchester Road, Libertyville IL 60048.

**MAC**

April 10, 2019

December 11, 2019

**Executive Committee**

February 11, 2019

November 6, 2019

Meeting Minutes and Sign-in  
Sheet for  
Wednesday, December 5th, 2018

# Municipal Advisory Committee (MAC)

Meeting Minutes for Wednesday, December 5th, 2018  
Lake County Central Permit Facility, Libertyville



STORMWATER MANAGEMENT COMMISSION

Erika Frable, MAC Chair called the meeting to order at 9:00 a.m.

- I. **Introductions from attendees**
- II. **Approval of Minutes –September 5, 2018.** Minutes approved by consensus.
- III. **NPDES Municipal Stormwater Program**
  - a. **Rebecca Olson, Olson Ecological Solutions, LLC presented on Pollutant Load Reduction and benefits of Floating Treatment Wetlands.**
    - i. Rebecca discussed the basics of floating wetlands. She has been a proponent of floating wetlands and their functions. She chose to be a representative of Floating International wetlands.
    - ii. Floating wetlands are BMPs that improve water quality and mimic the natural function of vegetation qualities in aquatic habitat. Naturally occurring bacteria binds to the root systems and aids plants in the uptake of nutrients through the root system. The bacteria also break down water quality nutrients. The floating islands mimic the natural surface area of an island and used a recycled high-grade plastic as the growing base for the islands. The islands are buoyant based on the material design, after bacteria establishment the bacteria provide some portion of buoyancy to the island as well. The islands can be planted with native plants or plants of choosing. The density of materials prevents wildlife damage to the island. The islands maintain a UV-protection to minimize photo degradation. The systems require an anchoring system the goal is maintaining a fixed location.
    - iii. The islands can be deployed in multiple types of linear or other waterbodies such as lakes, ponds, and detention basins. The system reduces a range of pollutants (E.coli, fecal coliform, nitrogen, phosphorous, TSS, and others).
    - iv. Floating Islands International can provide a sizing criterion per project based on the current pollutant loads, continual inputs, and targeted pollutant loads.
    - v. The planted islands can be functioning in 3-6 months as plants mature.
    - vi. The islands have not been considered for wetland mitigation from the Army Corps of Engineers. The floating islands have been considered for grant funding for pollutant reduction.
    - vii. Costing, the standard island at 88sqft is approximately \$5000 per island pending project specifics.
  - b. **Karen Reynolds of Environmental Canine Services, LLC presented on a canine IDDE Program.**
    - i. The program started in 2009 in Michigan, there are currently three regional locations (NE coast, Midwest, and West coast). Travel is limited to vehicle travel within the inspection regions. Over 80 projects completed to date in 16 different streets and D.C. If known point discharge exists, dog and handler will travel upstream to determine source of contamination. Dogs can sample on 70 sites per day or 2 miles per day.
    - ii. Program provides immediate contaminant location points versus time and cost for lab sampling.
    - iii. Innovative way to track human sewage contamination and some detergent discharges. Dogs are trained by Environmental Canine Services. Dogs have powerful sense of smell, 100,000 times better than humans. They can isolate sense and determine direction of scent. Dogs can discriminate between multiple scents among a mix of smells.
    - iv. Canines can locate broken sanitary lines (earth movement, tree roots) and septic system failures or illegal tie-ins that leach into stormwater. Canines provide a quick response versus dye test or

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pipe camera inspection. Research study in California indicated that the canines were highly accurate to sewage (86%) and 100% accurate on samples that did not have sewage. Canines can indicate the presence and residual of sewage (mths. to yrs. later), as low as 1-part sewage to 10,000 parts water. Canines cannot indicate bacteria levels; lab test must indicate levels.

- v. Clean Ocean Action was an ongoing project that has shown improved water quality from canine inspection as client has fixed impacts to illicit discharge points.

**c. Ernesto Huaracha, SMC presented on amending the Municipal Advisory Committee by-law language.**

- i. Ernesto proposed amending the by-law language to reduce the meeting requirements for MAC from having a meeting at least every two months to a minimum of 2 general meetings annually with the option of additional meetings as needed. It was requested that a vote is needed to amend the by-laws.
- ii. The MAC attendees voted by consensus to approve the by-law modification.
- iii. The modified MAC by-laws will be presented to the SMC Board for ratification during the January 2019 meeting.
- iv. A 2019 Schedule was provided based on quarterly meetings but will be updated to reflect the by-law revisions. The updated calendar will be posted on the SMC Advisory Committee website, <https://lakecountyil.gov/2338/Standing-Advisory-Committees>.

**IV. Ordinance Administrative Issues --No Action**

**V. SMC/Community Working Relationships**

**a. Ashley Warren, SMC presented on the Des Plaines River Watershed adoption process and watershed-based plan status.**

- i. The watershed-based plan is complete for Des Plaines River Watershed planning area. This plan is also an umbrella plan covering 10 subwatersheds. A summation of the project timeline: vision statement, 7 goals, and 20 meetings. Over 800 attendees for planning timeframe.
- ii. Planning area includes: 12 Impaired Stream Segments representing 85 miles of rivers and streams and 60 Impaired Lakes.
- iii. Watershed plan assessments resulting actions include: Programmatic Actions and site-specific action plan recommendations based on pollutant load reductions per project type, Education & Outreach, Web Mapping Application (<https://lakecountyil.maps.arcgis.com/apps/webappviewer/index.html?id=4bec638a6b8f471eb4e7c3dee717f042>).
- iv. Next steps will be community adoption.
  - Lake County Stormwater Management Commission (Oct. 2018)
  - Lake County Board (Nov. 2018)
  - Communities (2018-2019)

**b. Ernesto Huaracha, SMC presented on new QLP available resources for use by Lake County residents.**

- i. Lake County SMC has purchased a license agreement with Excal Visual Inc. for the use of Community Awareness Illicit Discharge Education and Elimination Videos on the Lake County SMC website. The videos are available in multiple length segments, but SMC will only have the 10.5-minute video available online in English and Spanish. Please use the provided links.
- ii. The videos will be used as new BMPs in YR16 and yearly BMPs starting in YR17 as a minimum BMPs for Public Education and Outreach and Public Involvement, environmental justice.
- iii. Online Videos

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- Illicit Discharge Education and Elimination (English),  
(<https://lakecountyil.swagit.com/play/11012018-930/>).
- Illicit Discharge Education and Elimination (Spanish),  
(<https://lakecountyil.swagit.com/play/11012018-929/>).

### VI. Inter-jurisdictional Programs, Projects and Grants Forum

- a. Inter-jurisdictional Programs **--No Action**
- b. Projects **--No Action**
- c. Grants Forum
  - i. No presentation but SMC WMB grant summary provided:
  - ii. FY2019 Watershed Management Board (WMB) Grant, SMC received 14 project applications for FY 2019 totaling \$5,048,095 and requesting \$397,376 of WMB funds. The Annual WMB Meeting is December 5th, 2018 at which time SMC staff will make a recommendation to the WMB for approval of 6 projects requesting \$182,760 of WMB Funds. Additionally, SMC has recommended 3 projects to the SIRF program for a total of \$99,914 of SIRF funding. SMC will seek Commission approval for WMB approved and SIRF projects in January.

### VII. Upcoming Training Opportunities, Meetings, Events

- a. Lake County SMC DECI Workshop, 1st Quarter 2019

### VIII. Other Topics for Discussion

- a. If you are not receiving email notifications regarding MAC, please email [ehuaracha@lakecountyil.gov](mailto:ehuaracha@lakecountyil.gov) to be added to the digital email distribution list.
- b. If your MS4 community has any NPDES related projects, awards achievements you wish to highlight and present to the Lake County community, please email [ehuaracha@lakecountyil.gov](mailto:ehuaracha@lakecountyil.gov) to schedule a presentation.

### IX. Next Meeting

- a. MAC Meeting, a 2019 schedule was provided, but based on the consensus vote to reduce the minimum meeting requirements to at least 2 meetings per year the 2019 will be updated and announced pending approval by the SMC Board during its January 2019 meeting.

### X. Adjourn

- a. Meeting adjourned at 11:00 a.m.

### 2018 Schedule:

General: April 4, 2018 —

General: September 5, 2018

General: June 6, 2018

General: December 5, 2018



STORMWATER MANAGEMENT COMMISSION

**Municipal Advisory Committee Meeting  
December 4, 2018**

	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
1	John Tierney Baxter & Woodman	jtierney@baxterwoodman.com	Grayslake, Round Lake, Island Lake Lindenhurst, Winthrop Harbor
2	Chris Bouchard		RHMG, Beach Park, Green Oaks, Wauconda
3	Jerry Nellesen	jerry.nellesen@ villageofbeachpark.com	Beach Park
4	M. Adam, LCHD	madam@lccountyil.gov	
5	Nick Leach	nleach@village.gurnee.il.us	Gurnee
6	Brian Frank	bfrank@lccountyil.gov	LCPBED



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	<b>Name &amp; AGENCY/GROUP</b>	<b>Email Address</b>	<b>MS4 Community</b>
<b>0</b>	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
<b>7</b>			
<b>8</b>			
<b>9</b>			
<b>10</b>			
<b>11</b>			
<b>12</b>			



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<b>0</b>	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
<b>13</b>			
<b>14</b>			
<b>15</b>			
<b>16</b>			
<b>17</b>			
<b>18</b>			



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0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
19	May Keen, SMC	mkeen@lakecountyil.gov	?
20	Ed Lebbos	BLA, INC	Village of Libertyville
21	Ashley Strelcheck	'	SMC
22	Jeff Hansen	JHANSEN@LAKECOUNTYIL.GOV	LAKE BLUFF
23	Scott Firnbach	Sfirnbach@rlpi1.com	Round Lake Park
24	BILL BLECKE	WBLECKE@MANHATTAN.COM	LK ZURICH



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	Name & AGENCY/GROUP	Email Address	MS4 Community
0	John Doe, Consultant Inc.	Ms4@worldwideweb.com	County/Township/City/ Village/Town/Drainage District
25	Karen Daulton Lange	KDLange@LakeBarrington.org	Lake Barrington
26	Jacob Wellbank, Robinson Engineering, Ltd.	jwellbank@reltd.com	North Barrington
27	Joe Marencik	jmarencik2@lakecounty.il.gov	SMC Consultant
28	David Parro	dparro@towerlakes-il.gov	Tower Lakes
29	Patrick Spencer	Pat.Spencer@villageofbeachpark.com	Beach Park
30	Ernesto Huaracha Meix Spehlmann	ehuaracha@lakecounty.il.gov MSpehlman@lakecounty.il.gov	



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<b>0</b>	<i>John Doe, Consultant Inc.</i>	<i>Ms4@worldwideweb.com</i>	<i>County/Township/City/ Village/Town/Drainage District</i>
<b>31</b>	<i>Juli Crane</i>	<i>jcrane@lakecountyil.gov</i>	<i>SMC</i>
<b>32</b>	<i>MIKE WARNER</i>	<i>MWARNER@LAKE COUNTYIL.GOV</i>	<i>SMC</i>
<b>33</b>	<i>Beth Adler</i>		
<b>34</b>			
<b>35</b>			
<b>36</b>			



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37	MIKE PRUSILA	MPRUSILA@LAKECOUNTYIL.GOV	LAKES CO. SMC
38	Keelan Noonan	noonank@foxlake.org	Village of Fox Lake
39	FRANK J. FOLEY	FJFOLEY@POL.CO	ROCKS LAKE P&E WATERBURY
40	ROB BYRNE	RBYRNE@LINCOLNSHIREIL.GOV	LINCOLNSHIRE
41	Caitlin Burke		Bewalt Hamilton Associates
42	ADAM BOECHE	ABOECHE@MUNDELEIN.ORG	MUNDELEIN