

## Urban Stormwater Tracking Call

7/24/2018

2:00 – 3:30pm

Present on call: Mary Beth Falsey, DuPage County; Reid Christianson, University of Illinois; Sarah Cardona, Metropolitan Planning Council; Amy Walkenbach, Illinois EPA; Trevor Sample, Illinois EPA; Eliana Brown, University of Illinois Extension; Kate Gardiner, University of Illinois Extension

- DuPage County Stormwater Tracking
  - Mary Beth Falsey demonstrated DuPage County's stormwater tracking ArcGIS online system.
  - DuPage County and CMAP developed the basin assessment process about 3 years ago as part of Watershed Plan development. Since then, DuPage County has completed stormwater basin assessments for about half of the county. DuPage County identified the basins using aerial photography, existing hydrography GIS layer, and municipal inventories (when available). They have their own GIS department, which helped make this effort possible. They already had GIS map layers available to them for use.
  - Staff first identifies basins using available data. Summer help/interns then inspect basins, add data, and inventory additional basins not identified on the map. It can be challenging to determine the difference between a wetland and a constructed wetland detention pond. Professional staff have provided direction and education and they spot check to ensure accuracy.
  - They can add elements in the field using ArcCollector on mobile devices.
  - They do onsite visits to determine basin quality. Turf considered "poor quality" because it can contribute fertilizer and goose poop downstream.
  - DuPage County has also mapped green infrastructure projects awarded funding under the Water Quality Improvement Program Grant. They can use GIS layers, such as topography and land use to determine areas draining to the projects in order to model pollutant load reductions from these projects.
  - The County would like to map all BMPs eventually, but this is a long-term process. They plan to reach out to partner MS4s to receive additional data to map.
- Inclusion in NLRs Biennial Report (Stormwater Land Measures)
  - We should showcase DuPage County's work in the next Biennial Report with data organized by watershed. It shows the potential for nutrient reduction. And share how other counties and municipalities can do this too.
  - With this tool, we can combine data from multiple organizations.
  - We shouldn't use their information and extrapolate it to the state, as DuPage does an exceptional amount for stormwater management and isn't representative of statewide efforts.
- Statewide Efforts
  - Sarah Cardona, Metropolitan Planning Council, is excited to see this work. She's working with the Calumet Stormwater Collaborative and would like to use a similar tool to map green infrastructure and plan their future initiatives.
  - Other MS4s may be interested in doing something similar if they have GIS staff. If they don't, there may be consulting firms or software that makes it easier.

- One organization could be the information keeper and each MS4 contribute data.

➤ **Next steps**

- Update the full stormwater group on the August 22 USWG call.
- Illinois EPA and Extension to work with DuPage County to include information in next Biennial Report.
- Sarah and Mary Beth will look into how to export this system to use in Cook County.
- Mary Beth will look make a list of basic things needed to use this system. She'll look at GIS intergovernmental sharing agreements in the state to estimate potential of other parts of the state doing this.
- Potentially have consulting firm speak at future call.