# Beyond the Basics 2021:
## Innovative Approaches to Stormwater Challenges

February 25th, 2021

8:00 - 11:30 AM

BEYOND THE BASICS
STORMWATER MANAGEMENT

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| **8:00 - 8:15** | **Welcome Remarks**<br>*DuPage County Stormwater Management* |
| **8:15 - 9:00** | **Waterway Restoration and Climate Resiliency**<br>*David Kraft, PE, CFM, Hey and Associates, Inc.*<br>*Tim Pollowy, PLA, ASLA, Hey and Associates, Inc.*<br>Climate change and urbanization are forcing us to look at waterway restoration in more creative and resilient manners. Increased runoff and associated erosion and changes to our suburban and urban waterways must be addressed to avoid infrastructure impacts and failures, as well as address growing water quality concerns. Creative and innovative design and regulatory approaches are key to staying in front of this problem, while also seeking to restore resources and improve function. We will explore this topic through a variety of recent project examples. |
| **9:00 - 9:10** | **Questions** |
| **9:10 - 9:15** | **Break** |
| **9:15 - 9:50** | **Watershed planning: Enhancing a stakeholder driven process aimed at improving and protecting watershed health through meaningful partnerships, watershed modeling, and innovative prioritization tools.**<br>*Kelsey Pudlock, Associate Planner, Chicago Metropolitan Agency for Planning*<br>*Karoline Qasem PhD, EIT, Senior Staff Engineer, Geosyntec Consultants*<br>This presentation will showcase CMAP's most recent collaboration with Geosyntec and the Fox River Study Group to develop watershed-based plans (WBPs) for the Mill Creek and Indian Creek watersheds in Kane and DuPage Counties, highlighting the significance of grounding plans in strong partnerships and leveraging watershed modeling as a decision-support tool throughout the plan's development. CMAP staff will provide an overview of the watershed-based planning process and its collaborative approach to working with local stakeholders, as well as discuss outreach strategies that communities can use to solicit public input, engage residents, and obtain feedback throughout the planning process. Geosyntec will then showcase how watershed models have been used to support watershed-based planning in the Mill Creek and Indian Creek watersheds in Illinois as well as the Greater Bonne-Femme watershed in Missouri. A methodology to prioritize critical areas in the watershed for Best Management Practices implementation based on the pollutant load estimates will also be presented. |

**This program is sponsored in partnership with DuPage County Stormwater management.**

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| **9:50 - 9:55** | **Questions** |
| **9:55 - 10:00** | **Break** |
| **10:00 - 10:35** | **Chloride In Northeast Illinois: Connecting Land Use to Contamination in Groundwater**<br>*Cecelia Cullen, M.S., Hydrogeologist Specialist, Illinois State Water Survey*<br>*Devin Mannix, M.A., Hydrogeologist, Illinois State Water Survey*<br>Chloride contamination in groundwater originates from deicers, such as road salt, and could become a major water quality issue in northeast Illinois. The Illinois State Water Survey (ISWS) has monitored chloride concentrations since the 1990's and has modeled the historic rise in chloride contamination. The ISWS finds that increasing concentrations in the past 30 years is tied to land use change. We want to discuss how land use in northeast Illinois, such as commercial parking lots and retention ponds, can impact regional water quality. |
| **10:35 - 10:40** | **Questions** |
| **10:40 - 10:45** | **Break** |
| **10:45 - 11:20** | **Buffalo Creek Reservoir Expansion**<br>*Tim Pollowy, PLA, ASLA, Senior Landscape Architect, Hey and Associates, Inc.*<br>*Justin Kirk, PE, CFM Senior Civil Engineer, Metropolitan Water Reclamation District of Greater Chicago (MWRD)*<br>The Buffalo Creek Reservoir Expansion is a unique flood reduction project that benefits multiple jurisdictions including communities in both Lake and Cook Counties. The project represents the very best of government in action with agencies of different jurisdictional boundaries and constituencies working cooperatively toward the common good of residents. The project includes flood reduction, public access, habitat, and water quality components. |
| **11:20 - 11:25** | **Questions** |
| **11:25 - 11:30** | **Closing Comments** |

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