

# URBAN STORMWATER WORKING GROUP

April 19, 2022 2 – 3 p.m.

Join URL: <https://illinois.zoom.us/j/81736251190?pwd=M2Irb2hBT2dRNDdWQXExQ3JPeXgzdz09>

Meeting ID: 817 3625 1190 Password: 471909

Phone: +1 312 626 6799,,81736251190# US (Chicago)



Photo by Layne Knouche



**ILLINOIS**  
NUTRIENT LOSS  
REDUCTION STRATEGY

# Introductions

Type your name and affiliation in the chat box.



# Agenda

2:00 – 2:05	<b>Welcome</b>
2:05 – 2:30	<b>Illinois Green Infrastructure Inventory Update</b> <i>Dr. Reid Christianson, University of Illinois</i> 5 min. Q/A
2:35 – 2:50	<b>Round Robin member updates</b> Each member share 1- to 3-minute on current programs or projects.
2:50 – 3:00	<b>Next Steps</b>





## JOAN COX

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**Illinois Extension**  
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN



**ILLINOIS**  
**NUTRIENT LOSS**  
REDUCTION STRATEGY

Welcome new members  
and guests



**ILLINOIS**  
NUTRIENT LOSS  
REDUCTION STRATEGY

A hand in a light-colored sleeve points to a specific node in a complex network diagram. The diagram consists of numerous interconnected lines in various colors (blue, yellow, red, green) on a light background, resembling a map or a technical drawing. The background is dark and slightly blurred.

# Tracking Urban BMPs

Urban Stormwater Working Group

April 19, 2022

Reid Christianson

# Needed information about BMPs

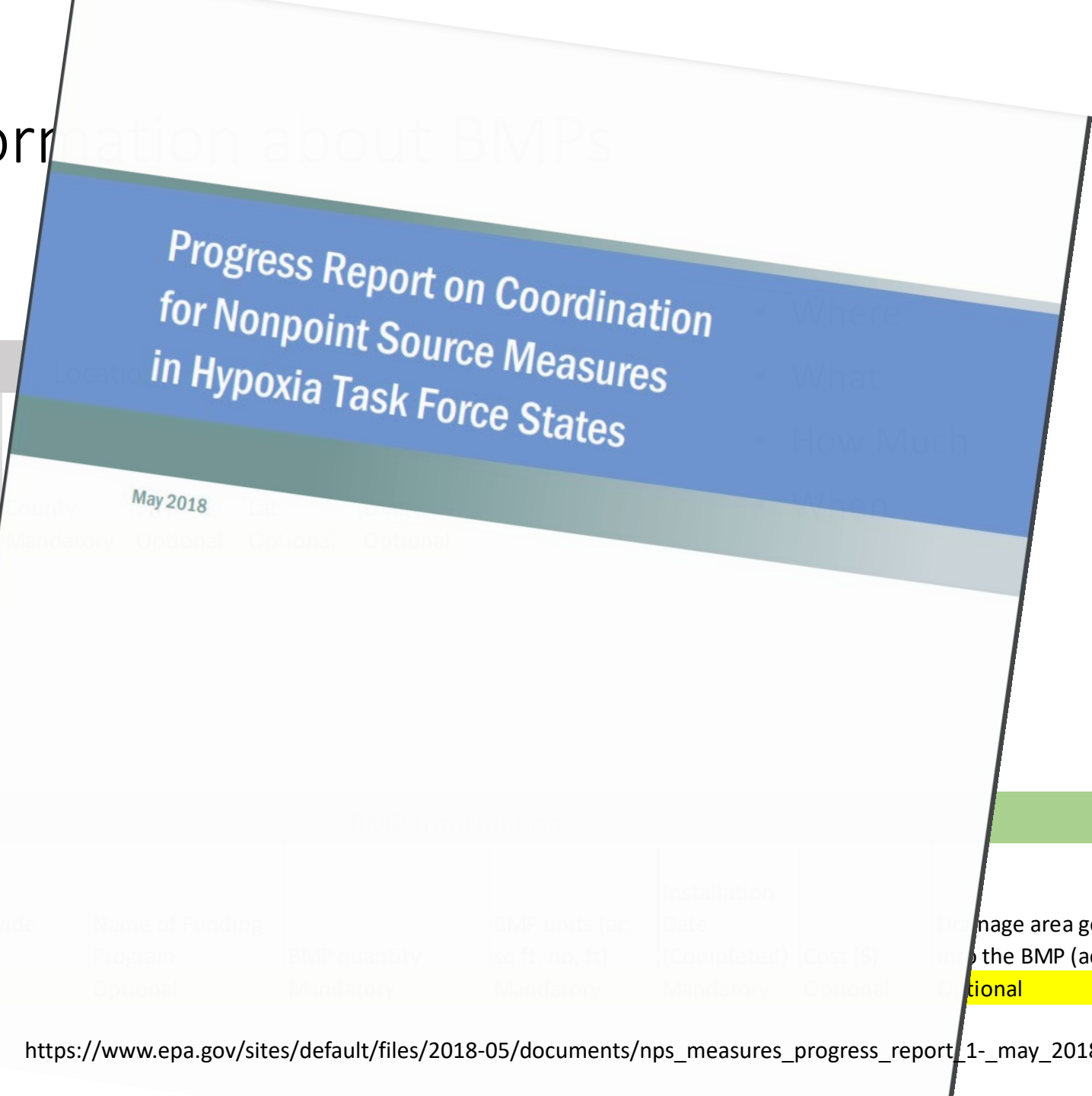
- Where
- What
- How Much
- When

Location					
HUC 8	HUC12	County	City	Lat	Long
Mandatory	Optional	Mandatory	Optional	Optional	Optional

BMP Information									
BMP Category (See next sheet)	BMP Name	If other, provide description	Name of Funding Program	BMP quantity	BMP units (ac, sq ft, no, ft)	Installation Date (Completed)	Cost (\$)	Drainage area going into the BMP (ac)	For New Development or Retrofit
Mandatory	Mandatory	Mandatory	Optional	Mandatory	Mandatory	Mandatory	Optional	Optional	Optional

# Needed information about BMPs

HUC 8	HUC12
Mandatory	Optional



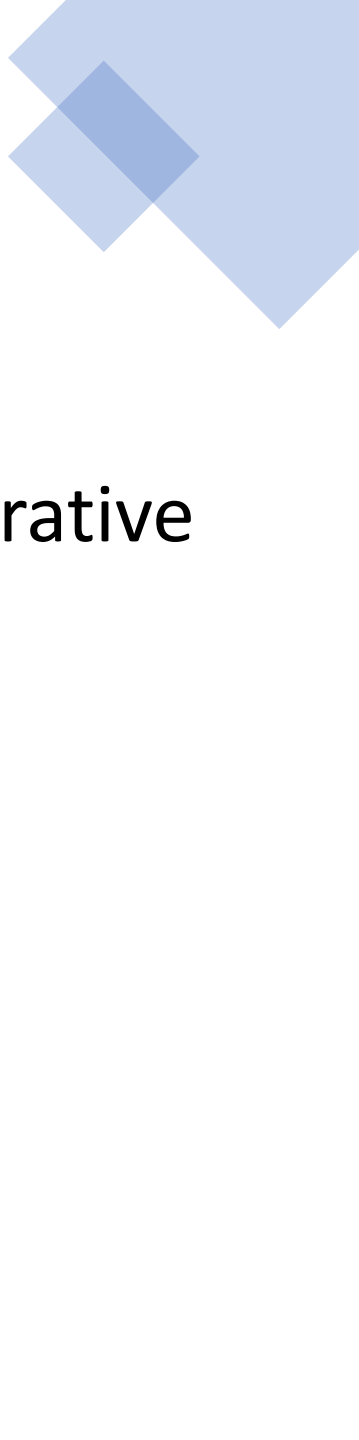
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Optional	Optional



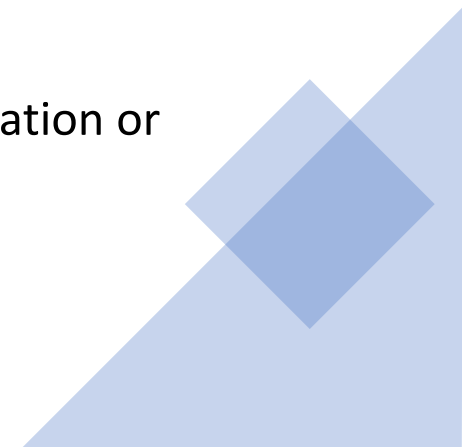


## Selecting BMPs to Track

- Data Sources
    - Calumet Stormwater Collaborative
    - DuPage County
    - Region 5 Model
    - Biennial Report
    - Others?
- 



# Calumet Stormwater Collaborative

- Bioswale
  - Constructed Wetland
  - Green Roof
  - Bioinfiltration System, e.g., Engineered Rain Garden
  - Stormwater Tree, i.e., within 20 ft. of impervious surface
  - Native Landscaping
  - Naturalized Detention Basin
  - Permeable Pavers
  - Permeable Asphalt
  - Pervious Concrete
  - Underground Detention System (with Infiltration or Biofiltration element)
  - Rainwater Harvesting - Cistern
- 

# Region 5 Model

- Vegetated Filter Strips
  - Grass Swales
  - Infiltration Devices
  - Extended Wet Detention
  - Wetland Detention
  - Dry Detention
  - Settling Basin
  - Sand Filters
  - WQ Inlets
- Weekly Street Sweeping
  - Infiltration Basin
  - Infiltration Trench
  - Porous Pavement
  - Concrete Grid Pavement
  - Sand Filter/Infiltration Basin
  - WQ Inlet w/ Sand Filter
  - Oil/Grit Separator
  - Wet Pond

# Mashing-up Practices

## Calumet

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# Categorizing

Conveyance

Detention

Filtration

Infiltration

Land Use

Manufactured

Permeable  
Pavement

Storage

Green Roof

Street  
Sweeping

# Distinguish Between Applications

## BMPs associated with new construction

- Can assume this is net neutral – this development was not here during the “baseline” period between 1980 and 1996

## BMPs associated with retrofitting existing development

- Changes the “load” on the books

# Base Units

There are many units associated with BMPs

- Square feet, linear feet, cubic feet, number, acres

Use “acres treated” as the base unit

- Make assumptions and do math to “convert” to acres treated
- Work has been done on Ag Conservation Practices on this front – see:
  - [http://draindrop.cropsci.illinois.edu/wp-content/uploads/2019/09/Data\\_Norms.pdf](http://draindrop.cropsci.illinois.edu/wp-content/uploads/2019/09/Data_Norms.pdf)

# Round Robin Member Updates

Type “Update” in the chat box.  
I will call on people.



# Next Steps

## GI Inventory:

- timeline
- member questions/suggestions
- a tracking subgroup focus
- spreadsheet template for data acquisition

## Next meeting topic:

- Minnesota Street Sweeping education and training program  
*John Bilotta, University of MN Extension*
- Call for Agenda Items

