

What's New in Stormwater Regulatory Updates

2018 FWWA Conference
Green Bay, WI





Topics Included

- TMDL Updates
- Grants Updates
- Electronic Annual Reports
- New and Updated Guidance
- Wetland Indicator Layer Updates
- Question & Answer

Leaf Collection Programs

Key Elements:

- Setting:
 - Medium Density Residential Land use
 - Curb & Gutter Drainage with Light Parking Density
 - Tree Cover- 17%





Leaf Collection Programs

Key Elements:

- Leaf Management
 - No leaves raked into streets
 - Collection Frequency
 - Cleaning Frequency/Timing



Leaf Collection Examples

Harsookville has the current program:

- Requires raking of leaves into the street
- Dense on-street parking
- Collects 2 Times/Fall
- Sweeps streets bi-weekly during fall

What would need to change?



Hartsookville DA 1

- 80 acres MDRNA
- 20 acres Strip Commercial
- BMP: Vacuum Sweeper 1 x/4 weeks
- BMP: Compliant Leaf Management Program

WinSLAMM Output:

Pollutant	Pollutant Yield No Controls (lbs/yr)	Pollutant Load With Controls (lbs/yr)	Percent Yield Reduction
Particulate Solids	27,439	23,976	12.6
Total Phosphorus	87.08	80.06	8.1 < 17%



Hartsookville DA 1

- 80 acres MDRNA @ 0.82 lbs TP/ac/yr
No Controls
- 20 acres Strip Commercial-Balance
of No Controls TP/ac/yr

Land Use	TP Yield No Controls (lbs/yr)	TP Load With Controls (lbs/yr)	TP Percent Yield Reduction
MDRNA	65.60		
Strip Commercial	21.48		



Hartsookville DA 1

- Output/Land Uses/Pollutants/Yield
- Divide by 5 years
- Use With Controls Strip Commercial for Street Cleaning

60.58

19.47



Applying the Credit

Pollutant	Pollutant Yield No Controls (lbs/yr)	Pollutant Load With Controls (lbs/yr)	Percent Yield Reduction
Particulate Solids-DA1	27,439	23,976	12.6
Total Phosphorus from MDRNA	65.60	54.45	17% From Leaf Management
Total Phosphorus from Strip Commercial	21.48	19.47	9.4% from Street Cleaning
Total Phosphorus DA1	87.08	73.92	15.1%



Hartsookville DA 2

- 80 acres MDRNA
- 20 acres Strip Commercial
- BMP: Regional Pond and Compliant Leaf Management Program

WinSLAMM Output:

Pollutant	Pollutant Yield No Controls (lbs/yr)	Pollutant Load With Controls (lbs/yr)	Percent Yield Reduction
Particulate Solids	27,439	15,685	42.8
Total Phosphorus	87.08	60.34	30.7 > 17%

Use Pond TP Reduction for DA2



Hartsookville DA 3

- 100 acres MDRNA
- BMP: Compliant Leaf Management Program

WinSLAMM Output:

Pollutant	Pollutant Yield No Controls (lbs/yr)	Pollutant Load With Controls (lbs/yr)	Percent Yield Reduction
Particulate Solids	21,568	21,568	0.0
Total Phosphorus	82.00	82.00	0.0 > 17%

Apply Leaf Management to entire DA



Applying the Credit

Basin	TSS Yield No Controls (lbs/yr)	TSS Load With Controls (lbs/yr)	TSS Percent Yield Reduction	TP Yield No Controls (lbs/yr)	TP Load With Controls (lbs/yr)	TP Percent Yield Reduction
DA1	27,439	23,976	12.6	87.08	73.92	15.1
DA2	27,439	15,685	42.8	87.08	60.34	30.7
DA3	21,568	21,568	0.0	82.00	68.06	17.0
Total	76,446	61,229	19.9	256.16	202.32	21.0



Without the Credit

Basin	TSS Yield No Controls (lbs/yr)	TSS Load With Controls (lbs/yr)	TSS Percent Yield Reduction	TP Yield No Controls (lbs/yr)	TP Load With Controls (lbs/yr)	TP Percent Yield Reduction
DA1	27,439	23,976	12.6	87.08	80.06	8.1
DA2	27,439	15,685	42.8	87.08	60.34	30.7
DA3	21,568	21,568	0.0	82.00	82.00	0.0
Total	76,446	61,229	19.9	256.16	222.4	13.2



TMDL Upcoming Submissions

MS4 Permittees covered under WPDES Permit No. WI-S050075-2 and located in an Approved TMDL Basin, the items listed in Sections 1.5.4.4 and 1.5.4.5

(<http://dnr.wi.gov/topic/StormWater/documents/WPDES-WI-S050075-2.pdf>) are due on March 31, 2018.

- Modeling-Where do you stand relative to removals?
- Planning-How and when will action be taken?



TMDL Upcoming Submissions

- A suggested format is available in Appendix B of <http://dnr.wi.gov/topic/stormwater/documents/M/S4TMDLImpGuidance.pdf>
- Submit using the Department's e-permitting system:
<http://dnr.wi.gov/topic/stormwater/municipal/eReporting.html>



Hartsookville Summary

Benchmark (BM)	BM Description	Drainage Areas from model	BM Start Date	Measure Treatment Performance	BM % reduction toward TMDL Reduction
N/A	Maintain Existing	All	Ongoing	19.9% TSS 13.2% TP	TSS: 19.9% TP: 13.2%
1	Add Leaf Collection	DA1, DA3	Fall 2018	19.9% TSS 21.0% TP	TSS: 0.0% TP: 7.8%
2	Increase Street Cleaning Frequency & enact parking ordinance	DA1	Fall 2019	23.6% TSS 21.5% TP	TSS: 3.7% TP: 0.5%
3	Construct Pond	DA3	Fall 2020	46.2% TSS 35.8% TP	TSS: 22.6% TP: 13.8%

Urban NPS Grant Updates

- Applications
 - Construction grant applications due April 15th
 - Contact local NPS coordinator
 - Revised planning grant application for 2019





Urban NPS Grant Management

Common Issues:

- Projects started prior to DNR review and approval
 - DNR contract approval required for engineering services and construction
- Contract documents not consistent with the grant application and award
 - DNR approval required for project modifications
- Contract and/or billing documents that don't clearly identify grant eligible costs



MS4 eReporting

- **Live in January!**

<http://dnr.wi.gov/permits/water/>

- Annual Reports
- Other Permit Compliance Documents

Important information concerning the MS4 permits

Online reporting is now available to municipalities for submitting Annual Reports and other permit compliance documents.

- **User Support Tools**

<http://dnr.wi.gov/topic/stormwater/municipal/eReporting.html>

User Support Tools	Date
MS4 eReporting Webinar [exit DNR]	January 2018
Instructional training videos	
Step-by-step help document [PDF]	December 2017



MS4 eReporting

- Who is the Stormwater Authorized Rep?
- Submission Basics
 - WAMS ID
 - Delegation of Signature Authority Form
 - Sharing Annual Reports with the Municipality's Governing Body



MS4 eReporting

- Who is the Stormwater Authorized Rep?
 - The municipal official that was charged with compliance and oversight of the permit conditions, and has signature authority for submitting permit documents to the DNR



MS4 eReporting

- Submission Basics

- WAMS ID

- Delegation of Signature Authority Form 3500-123

- <http://dnr.wi.gov/topic/stormwater/municipal/eReporting.html>

- Sharing Annual Reports with Municipality's Governing Body

Draft and Share PDF Report with Municipality's Governing Body.

Press the button below to create a PDF. The PDF will be sent to the email address associated with the WAMS ID that is signed in. After the annual report has been approved by the governing body, you will have to come back to the MS4 eReporting system to submit the report to the DNR.

[Draft and Share PDF Report with Municipality's Governing Body](#)



Technical Standards

Recently Completed:

- 1002 Site Evaluation for Infiltration
- 1005 Vegetated Treatment Swale
- S100 Compost

Almost Done:

- 1062 Ditch Check



Technical Standards

In Progress:

- 1009 Raingarden
- 1057 Trackout Control Practices
- New Proprietary Filtration Devices
- Dewatering
- Minor Updates to Channel & Non-Channel E-Mat, Seeding, and Mulch

Trackout Control

- Public Notice Planned for April 2018





Other Items in Progress

- NR152-Model Ordinances Update
- Reissuance of MS4 Permits in 2019
 - TMDL Benchmarks
 - Remand Rule (Clarifying Minimum Control Measures)
 - Lessons learned from MS4 Evaluations

Guidance

In Progress:

- Interim Leaf Management Credit
- MS4 TMDL – Pollutant Trading vs. Municipal Cooperation



Recent Update:

- Soil Loss & Sediment Discharge Tool and Guidance

Current Wetland GIS Layers

- Wisconsin Wetland Inventory
- Wetland Potential Layer (i.e. "pink layer")
 - Based on NRCS soils drainage class information
 - Currently flags somewhat poorly, poorly, and very poorly drainage classes
 - Triggers further investigation to determine if wetlands actually present



<https://dnr.wi.gov/topic/surfacewater/swdvw/>

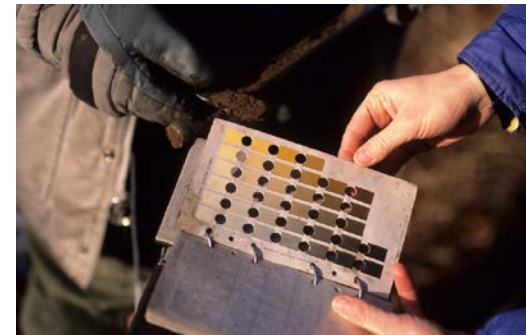
Purpose of the Layers

- Provides preliminary indication of wetland presence
- Developed using aerial photography, map soils and wetland delineation reports
- DOES NOT define the limits of jurisdiction or regulatory authority of any Federal, State, or local government
- Field delineations preferred method to confirm wetland presence/absence



Revisiting the “Pink Layer”

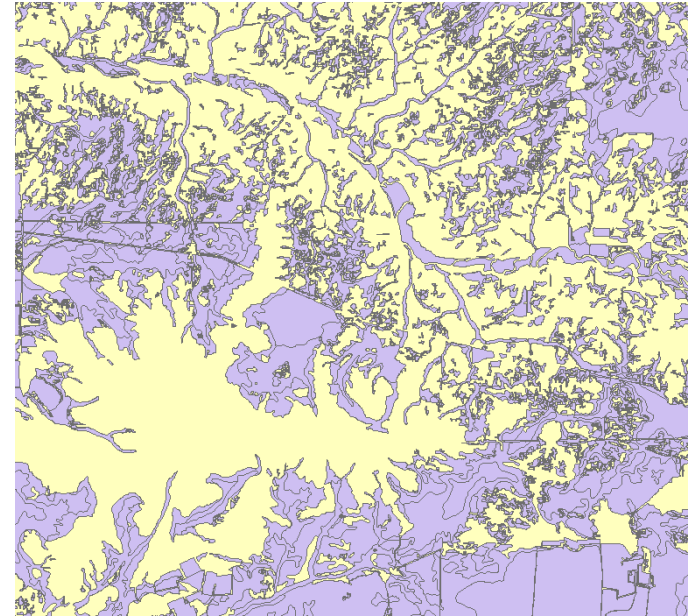
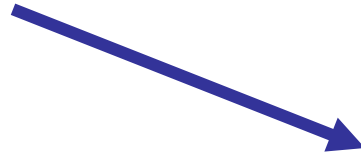
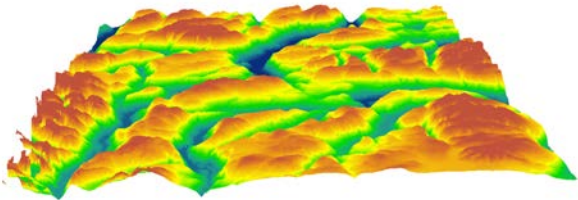
- Originally developed in early 2000s
- Designed to be a conservative estimate of wetland presence for flagging purposes
- Additional data inputs now available
 - NRCS soils information
 - Field delineations
 - Improved digital topography



Updating the methods

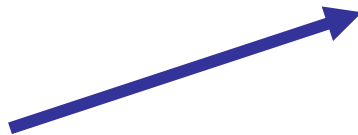
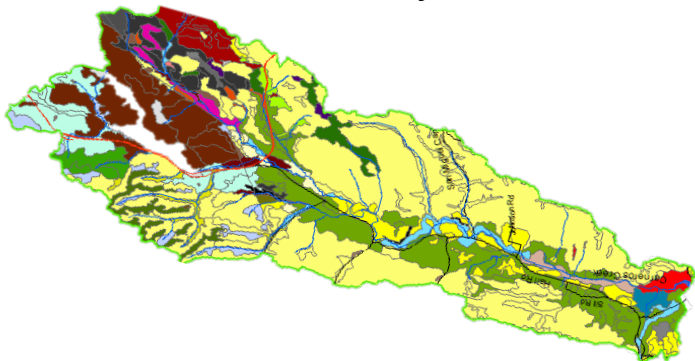
Where can water pond?

DEM Topo Layer



Where are wetland soils present?

NRCS Soils Layer





General Trends

- There is less “pink”
 - Smaller total area but more individual polygons
- Some areas will appear jagged
 - DEM topo data resolution
 - Reflection of agricultural or other topographic manipulations
- Some areas will appear rounded
 - WWI data inputs



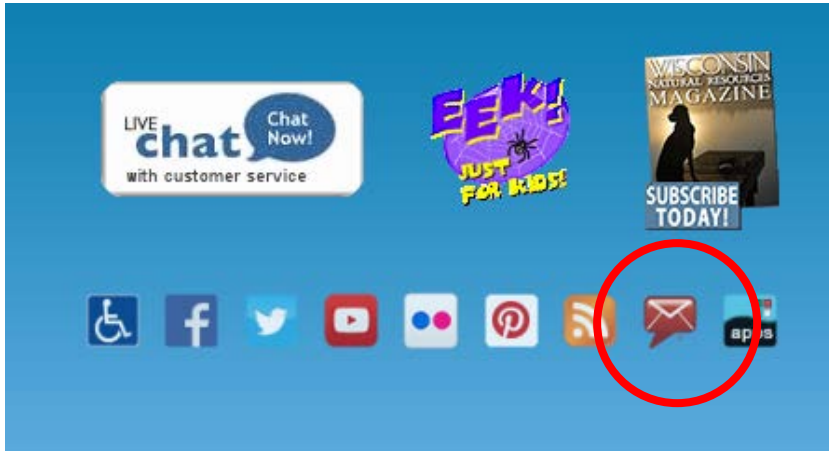
Status

- Target release date is April 2018
- Continuing to work with NRCS to confirm details
- Information meetings likely

Questions? Ideas?
Please reach out!!!

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GovDelivery Sign-up





Questions?