COORDINATED APPROACHES TO STORM WATER AND WASTEWATER SOLUTIONS

David W. Arnott, P.E.
Team Leader/Senior Project Manager
Ruekert & Mielke, Inc.

Maureen A. McBroom
Enviromental Coordinator
Ruekert & Mielke, Inc.

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INTRODUCTIONS

Maureen McBroom
Environmental Coordinator
Ruekert & Mielke, Inc.

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Agenda

Introductions/Why Water Quality?	10:00-10:15
Cooperative Approaches to Water Quality Improvements	10:15-10:25
WWTF and MS4 Trading	10:25-10:45
PS to PS Trading	10:45-11:00
Lunch	11:00-11:20
PS to NPS Trading	11:20-11:35
Downtown & Riverfront Redevelopment	11:35-11:45
Grant Opportunities	11:45-11:50
Summary/Questions	11:50-12:00

Quick Terms & Acronyms

PS = Point Source

NPS = Nonpoint Source

Reachshed = Small drainage area /subwatershed in TMDL

TMDL = Study to determine the amount of pollution that a waterway can receive & still meet water quality standards

MS4 = Municipal *Separate* Storm Sewer System

WWTF = Wastewater Treatment Facility

TSS = Total Suspended Solids

TP = Total Phosphorus (as opposed to Dissolved or Particulate Phosphorus)

WHY WATER QUALITY?

Maureen McBroom
Environmental Coordinator
Ruekert & Mielke, Inc.

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EPA / Clean Water Act

Cuyahoga River, Cleveland, OH (1952)

Timeline

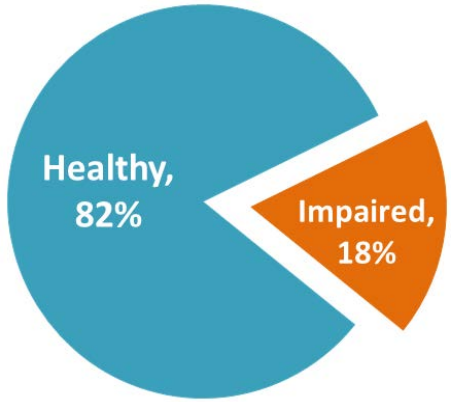
- 1969: Cuyahoga River Fire
  - Multiple fires in decades before
- 1972: Clean Water Act
- Mid-70's: WWTF permits
- Late 1980's: MS4 permits
- Present Day: Making progress

Cuyahoga River Today

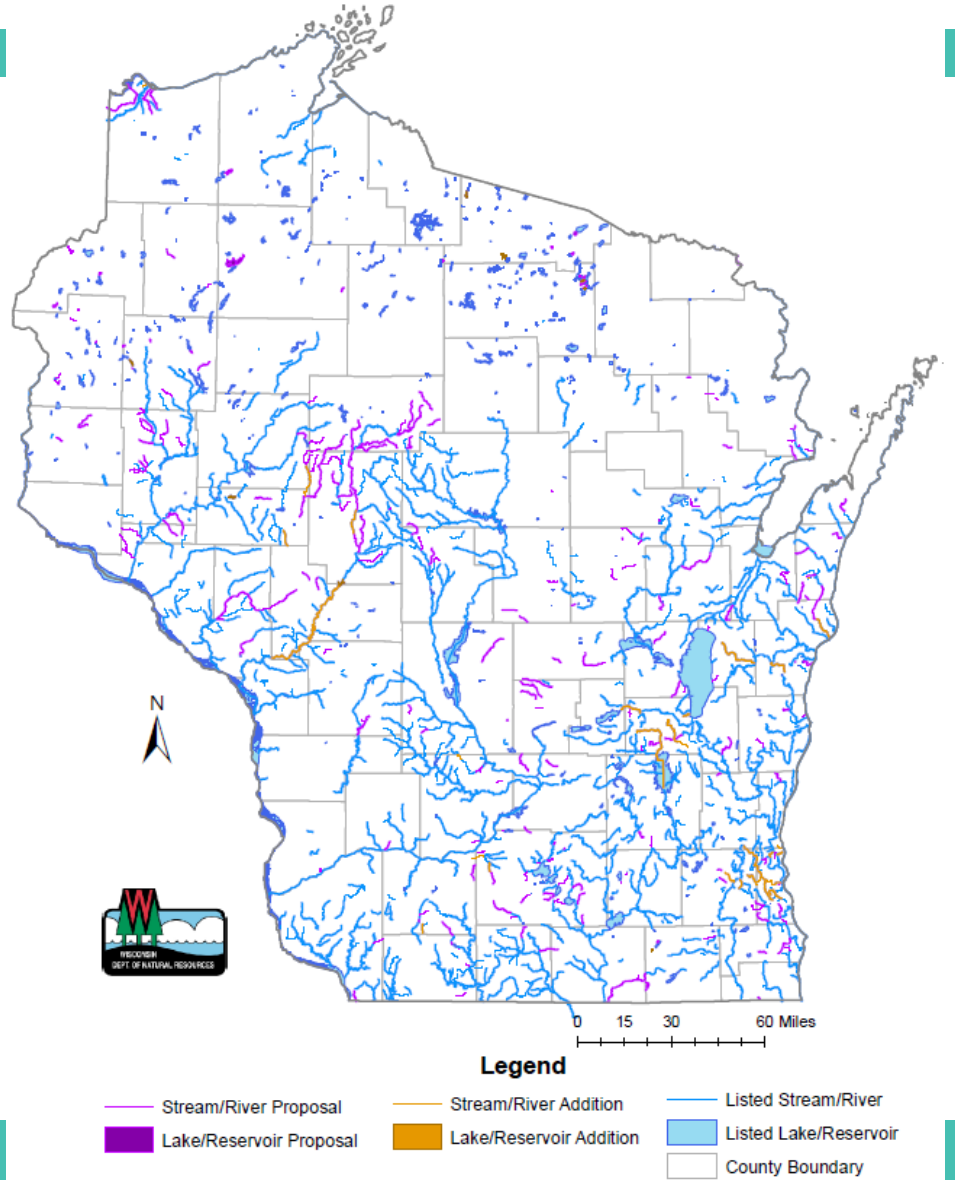
Cuyahoga River, Cleveland, OH (2016)

Impaired Waters in Wisconsin

- Impaired Waters
  - DNR Updates List Every 2 Years
    - EPA approval required
  - Permit Requirements
    - Reduce pollutants
    - TMDL development & implementation



2018 Impaired Waters List:
Pending Approval from EPA



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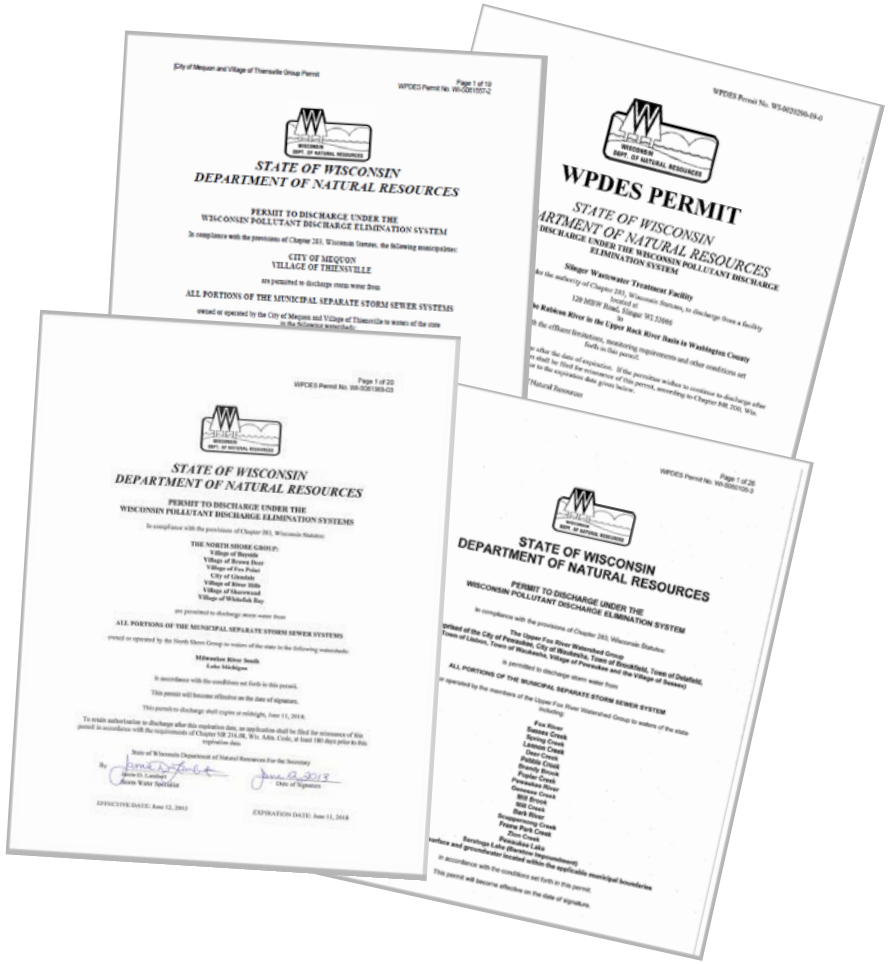
Wisconsin Permit Requirements

- Municipal WWTF Permits
  - Started in mid-1970's
  - 638 municipal WWTF permits in WI
- MS4 Permits
  - Started in early 2000's
  - 240+ permitted MS4s in WI
    - >100 permitted MS4s in SE Wisconsin



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COOPERATIVE APPROACHES TO WATER QUALITY IMPROVEMENTS

Maureen McBroom
Environmental Coordinator
Ruekert & Mielke, Inc.

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Group MS4 Collaboration

- "MS4 to MS4"
- Traditional MS4 Permit Cooperation
  - Information and Education Program
  - Public Involvement Program
  - Internal Education/Training Opportunities
  - Joint Meetings, Permit Conditions
  - Cooperative TSS reduction approach was optional through NR 151

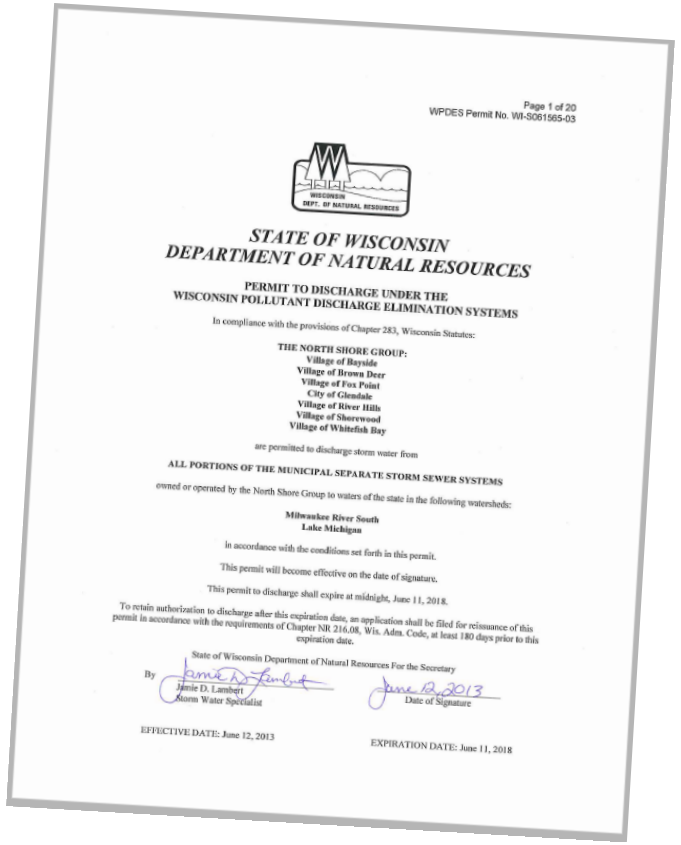
Group MS4 Collaboration

- Next MS4 Permit
  - New format?
  - Group *compliance* requirements?

  - Cooperative TSS, TP Reductions Across Reachsheds?
    - Achieve wasteload reductions on a reachshed by reachshed basis across municipal borders?
    - Pollutant Trading programs?

Group MS4 Collaboration

- North Shore Group MS4 Permit
  - 7 communities: 1 permit for 15+ years
  - Same permit conditions, but no joint compliance requirements
  - Next permit (2018) will include MKE TMDL goals
    - TSS, phosphorus, bacteria
  - Options
    - NR 151 joint compliance?
    - Pollutant trading?
    - Joint projects? / MMSD joint initiatives?



Page 1 of 20
WPDES Permit No. WI-S061565-03

WISCONSIN DEPT. OF NATURAL RESOURCES

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

PERMIT TO DISCHARGE UNDER THE
WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEMS

In compliance with the provisions of Chapter 283, Wisconsin Statutes:

THE NORTH SHORE GROUP:
Village of Bayside
Village of Brown Deer
Village of Fox Point
City of Glendale
Village of River Hills
Village of Shorewood
Village of Whitefish Bay

are permitted to discharge storm water from

ALL PORTIONS OF THE MUNICIPAL SEPARATE STORM SEWER SYSTEMS

owned or operated by the North Shore Group to waters of the state in the following watersheds:

Milwaukee River South
Lake Michigan

in accordance with the conditions set forth in this permit.

This permit will become effective on the date of signature.

This permit to discharge shall expire at midnight, June 11, 2018.

To retain authorization to discharge after this expiration date, an application shall be filed for reissuance of this permit in accordance with the requirements of Chapter NR 216.08, Wis. Adm. Code, at least 180 days prior to this expiration date.

State of Wisconsin Department of Natural Resources For the Secretary

By Jamie D. Lambert
Storm Water Specialist

June 12, 2013
Date of Signature

EFFECTIVE DATE: June 12, 2013

EXPIRATION DATE: June 11, 2018

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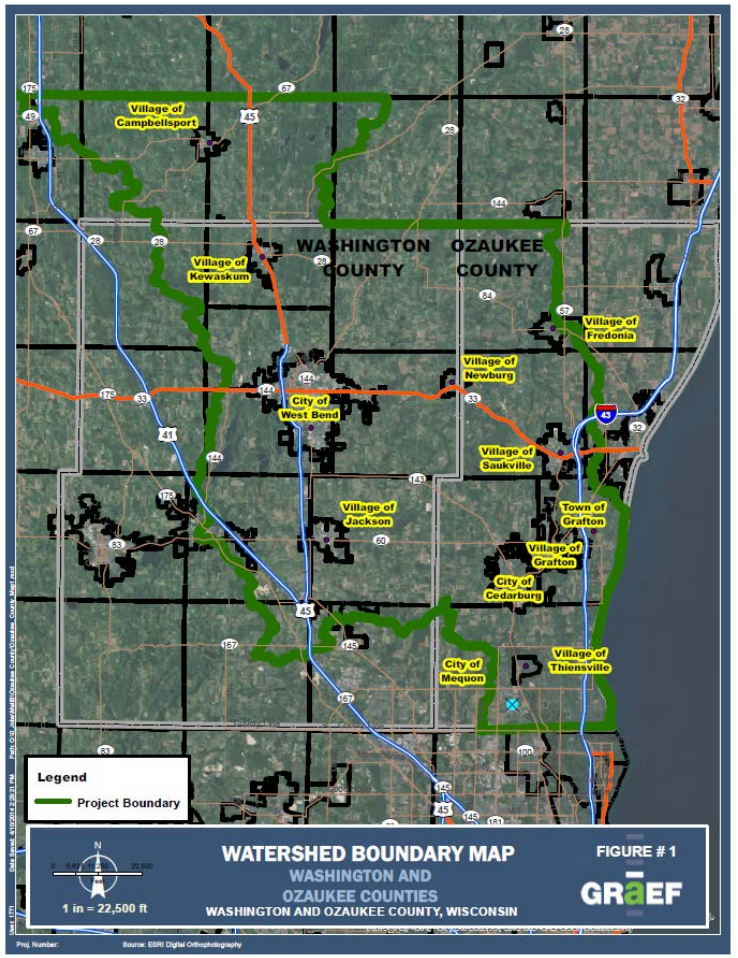
Group MS4 Collaboration

- Mid-Moraine Water Quality Collective
  - Collaborative effort to implement the Milwaukee River Basin TMDL
  - 10 municipalities, 2 counties
  - Improved water quality
  - Responsible stewardship of rate payer and tax payer dollars
  - A unified voice through collaboration



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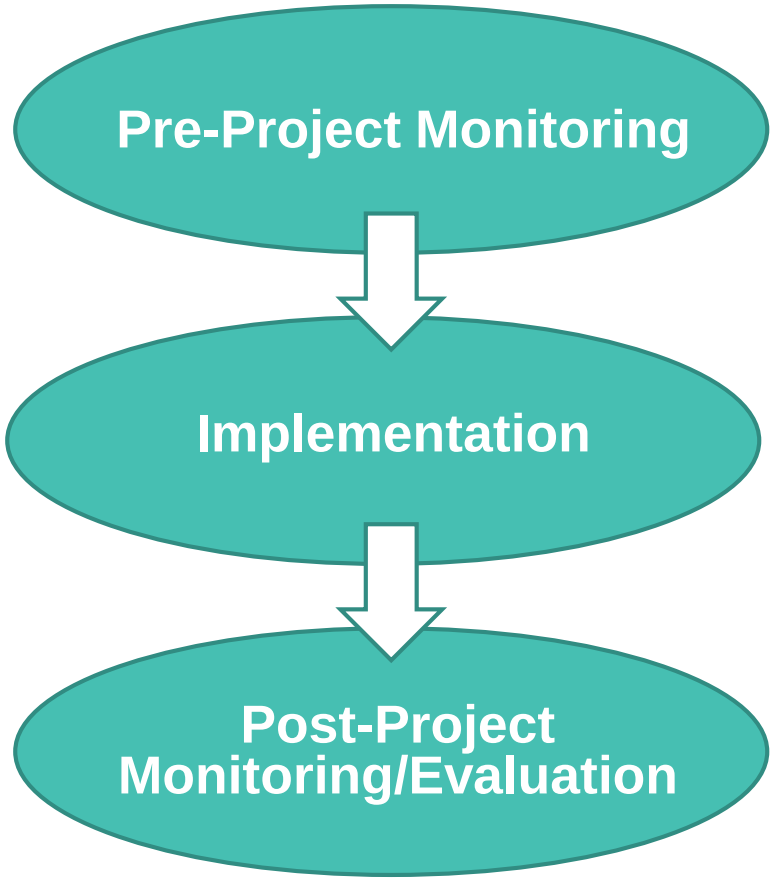
Group MS4 Collaboration

- DuPage River/Salt Creek Workgroup
  - 10+ years together
  - WWTF & MS4, NGO's, businesses
  - Long-term strategy to meet TMDL
    - Work with agencies on permit
    - Confirm data
    - Implement projects strategically



Group MS4 Collaboration

- Group Structure
  - Lead individuals, positions, responsibility
  - Funding structure options
    - Population-based?
    - Acreage-based?
    - Flat-fee? (Tiered or equal?)
  - Political support (buy-in)?
  - How to prioritize implementation?
  - Monitoring program?

Group MS4 Collaboration

- TMDL Compliance: focus on impaired waters
  - Target <u>impairments</u> when determining best solutions

    ~ Not just the pollutants~

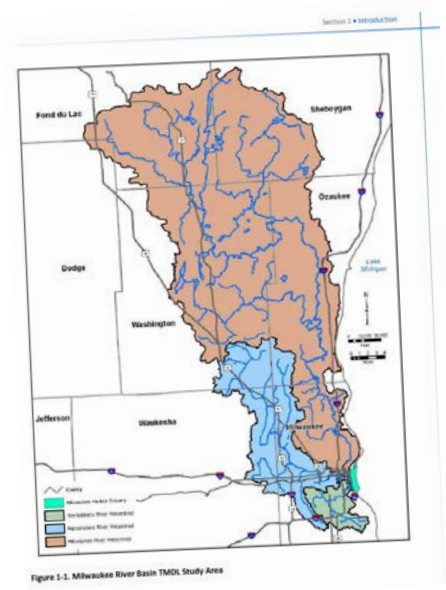


Figure 1-1. Milwaukee River Basin TMDL Study Area

WDNR Impaired Waters List

Local Waterbody Name	Official Waterbody Name	Water Type	WATERS ID (AU)	EPA_ID 305B	WBIC	Counties	Start Mile	End Mile	Size	Units	DNR Category	Impaired Water ID	Date Listed	Source Category	Pollutant	Impairment Indicator	Status
Adams Valley Creek	Adams Valley Creek	RIVER	14002	10008303	1653700	La Crosse	1	0	2.57	2.57	MILES	Category 5A	1	4/1/1998	NPS	Sediment/Total Suspended Solids	Degraded Habitat	EAP Project
Adell Tributary	Unnamed	RIVER	10092	10000275	33000	Sheboygan	1	0	4.96	4.96	MILES	Category 4A	2	4/1/1998	NPS	Sediment/Total Suspended Solids	Degraded Habitat	TMDL Approved
Ahnapee River	Ahnapee River	RIVER	18073	10006107	94800	Door, Kewaunee	1	0	7.86	7.86	MILES	Category 5A	3	4/1/1998	Other	PCBs	Contaminated Fish Tissue	303d Listed
Ahnapee River	Ahnapee River	RIVER	18073	10006107	94800	Door, Kewaunee	1	0	7.86	7.86	MILES	Category 5A	2014-25	4/1/2014	PS/NPS	Total Phosphorus	Degraded Biological Community	303d Listed
Ahnapee River	Ahnapee River	RIVER	482923	10008822	94800	Door	2	7.86	14.71	6.85	MILES	Category 5A	3	4/1/1998	Other	PCBs	Contaminated Fish Tissue	303d Listed
Allen Creek	Allen Creek	RIVER	13623	10002800	883700	Green, Rock	1	0	10.57	10.57	MILES	Category 5P	2018-084	4/1/2018	PS/NPS	Total Phosphorus	Impairment Unknown	Proposed for Lis
Allen Creek	Allen Creek	RIVER	13625	10010031	883700	Rock	4	15	20.21	5.21	MILES	Category 5A	2016-106	4/1/2016	PS/NPS	Unknown Pollutant	Degraded Biological Community	303d Listed
Allen Creek	Allen Creek	RIVER	13626	10010032	883700	Rock	5	20.22	22.96	2.74	MILES	Category 5A	2016-107	4/1/2016	PS/NPS	Total Phosphorus	Degraded Biological Community	303d Listed
Allen Creek	Allen Creek	RIVER	5542005	10034660	883700	Dane, Green, Rock	6	22.96	26.98	4.02	MILES	Category 5A	2016-108	4/1/2016	PS/NPS	Total Phosphorus	Degraded Biological Community	303d Listed
Alto Creek	Alto Creek	RIVER	11414	10001261	835900	Dodge	1	0	6.15	6.15	MILES	Category 4A	6	4/1/1998	PS/NPS	Sediment/Total Suspended Solids	Low flow alterations, Degraded Habitat	TMDL Approved
Amacoy Lake	Amacoy Lake	LAKE	15269	10003999	2359700	Rusk	1			282.53	ACRES	Category 5A	2014-286	4/1/2014	NPS	Unknown Pollutant	Excess Algal Growth	303d Listed
Amik Lake, Pike Lake Chain	Amik Lake	LAKE	14815	10003623	2268600	Vilas	1			140.81	ACRES	Category 5C	2016-252	4/1/2016	PS/NPS	Total Phosphorus	Impairment Unknown, Excess Algal Growth	303d Listed
Amnicon Lake	Amnicon Lake	LAKE	296831	10008205	2858100	Douglas	1			390.23	ACRES	Category 5A	7	4/1/1998	NPS	Sediment/Total Suspended Solids	Elevated Water Temperature, Degraded Habitat	303d Listed
Amnicon River Beach, Lake Superior	Lake Superior	GREAT LAKES BEACH	1487383	10024757	2751220	Douglas	6			0.25	MILES	Category 5A	2016-267	4/1/2016	PS/NPS	E. coli	Recreational Restrictions - Pathogens	303d Listed
Anderson Creek	Anderson Creek	RIVER	10987	10000944	133300	Fond du Lac	2	0	7.26	7.26	MILES	Category 5A	2016-030	4/1/2016	PS/NPS	Total Phosphorus	Degraded Biological Community	303d Listed
Anderson Creek	Anderson Creek	RIVER	10987	10000944	133300	Fond du Lac	2	0	7.26	7.26	MILES	Category 5A	662	4/1/2002	NPS	Sediment/Total Suspended Solids	Degraded Habitat	TMDL Development
Angelo Pond	Angelo Pond	IMPOUNDMENT	14028	10003029	1660400	Monroe	1			39.47	ACRES	Category 5B	229	4/1/1998	Atm. Dep.	Mercury	Contaminated Fish Tissue	303d Listed
Anna Lake	Annabelle Lake	LAKE	128391	10007528	2953800	Vilas	1			194.48	ACRES	Category 5B	9	4/1/1998	Atm. Dep.	Mercury	Contaminated Fish Tissue	303d Listed
Annis Creek	Annis Creek	RIVER	15664	10004328	2066200	Dunn	1	0	5.97	5.97	MILES	Category 5P	2018-133	4/1/2018	NPS	Total Phosphorus	Impairment Unknown	Proposed for Lis
Anodanta Lake	Anodanta Lake	LAKE	20558	10011028	2898200	Bayfield	1			25.89	ACRES	Category 5B	2018-305	4/1/2018	Atm. Dep.	Mercury	Contaminated Fish Tissue	Proposed for Lis
Apple Branch	Apple Branch	RIVER	18546	10006450	899800	Lafayette	3	4.9	7.67	2.77	MILES	Category 4A	10	4/1/1998	NPS	Sediment/Total Suspended Solids	Elevated Water Temperature	TMDL Approved
Apple Creek	Apple Creek	RIVER	313933	10008401	124100	Brown	3	0	3.99	3.99	MILES	Category 4A	12	4/1/1998	NPS	Total Phosphorus	Low DO	TMDL Approved
																	Elevated Water Temperature,	

Total Maximum Daily Loads for Total Phosphorus and Total Suspended Solids in the Rock River Basin

Columbia, Dane, Dodge, Fond du Lac, Green, Green Lake, Jefferson, Rock, Walworth, Washington, and Waukesha Counties, Wisconsin

July 2011

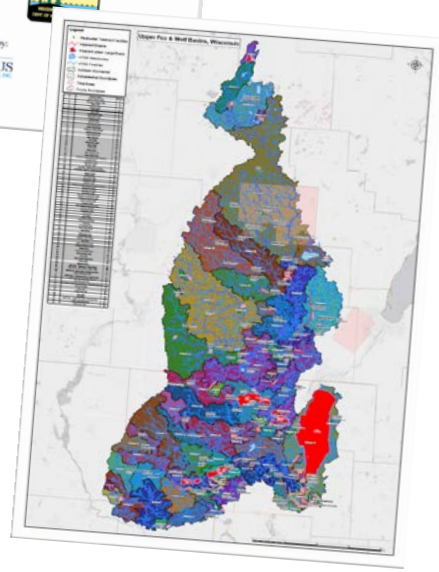
Prepared for:

U.S. Environmental Protection Agency Region 5 77 W. Jackson Blvd. Chicago, IL 60604

Wisconsin Department of Natural Resources 101 S. Webster Street, PO Box 7921 Madison, Wisconsin 53707-7921

Prepared by:

GADMUS



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WWTF AND MS4 TRADING

David W. Arnott, P.E.
Team Leader/Senior Project Manager
Ruekert & Mielke, Inc.

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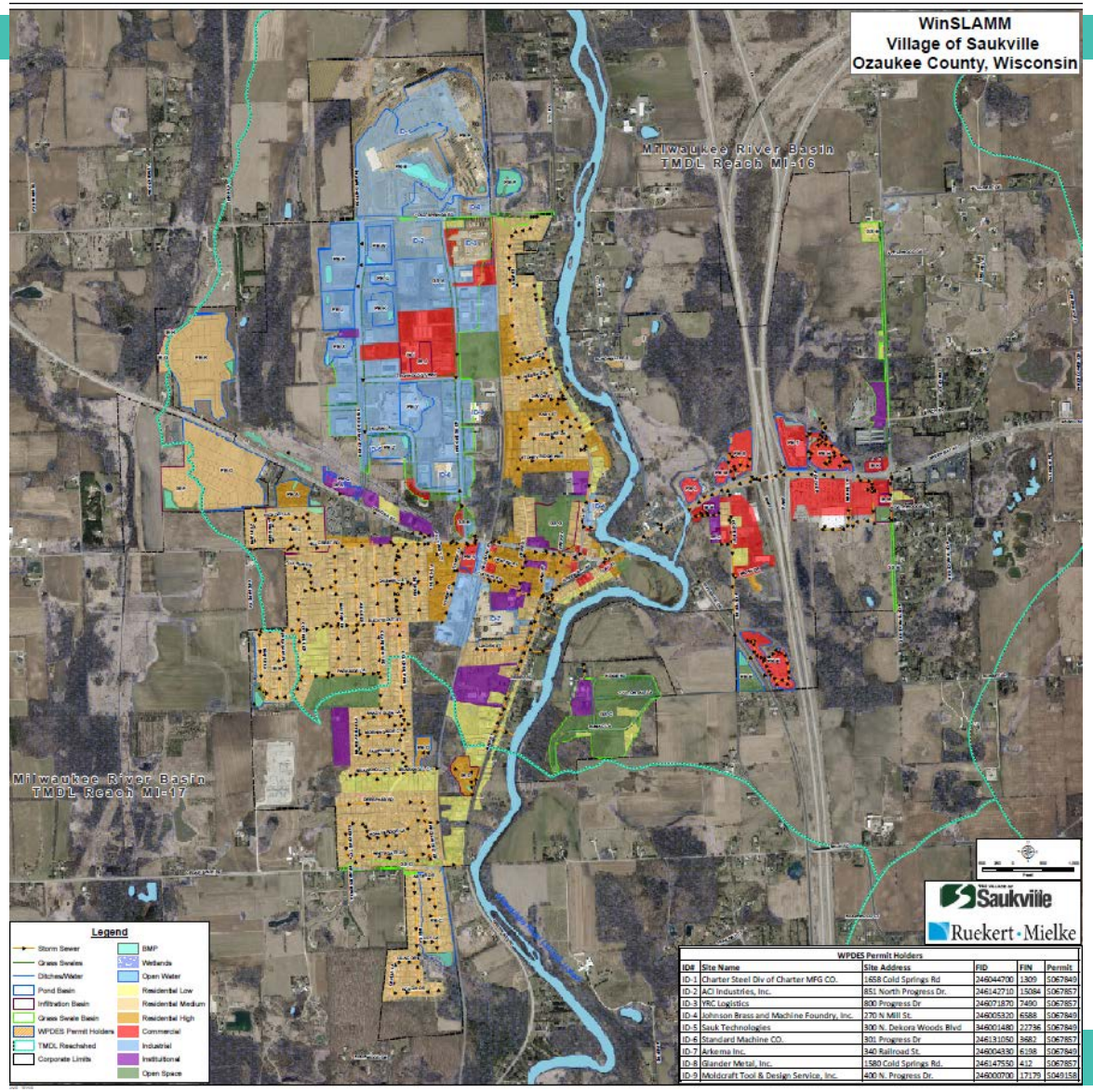
Village of Saukville

- MKE River Basin TMDL
- MS4 TMDL Reductions Needed
  - TSS 55,077 lbs./yr.
  - TP 219 lbs./yr.

Village of Saukville



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Village of Saukville

- WWTF TMDL Reductions
  - TP – 0.16 mg/L
  - TSS - Less stringent than existing
- Optimized to 0.2 mg/L
  - New chemical
  - More chemical
  - New location

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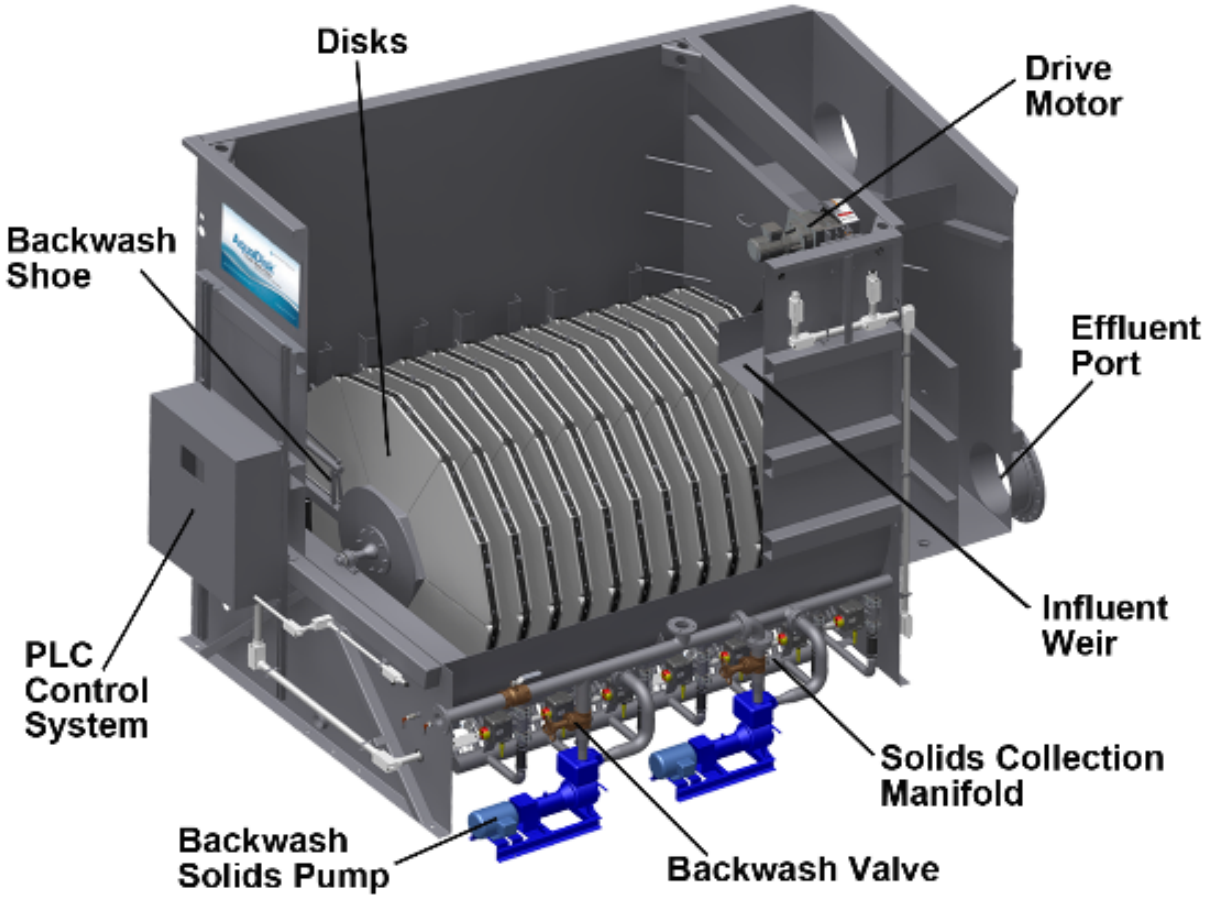
Village of Saukville

- Pilot Trial of Filter
- Reliable TP Treatment Down to 0.09 mg/L



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Village of Saukville

- WWTF Excess Credits
  - TSS – 28,100 lbs./yr.
  - TP – 516 lbs./yr.
- MS4 Credits Needed
  - TSS - 55,077 lbs./yr.
  - TP – 291 lbs./yr.

City of Watertown

- Rock River TMDL
- WWTF Excess Credits
  - TSS – 252,000 lbs./yr.
- MS4 Credits Needed
  - TSS - 519,000 lbs./yr.
- Option for City

THE CITY OF
WATERTOWN
Opportunity runs through it.

POINT SOURCE TO POINT SOURCE TRADING

David W. Arnott, P.E.
Team Leader/Senior Project Manager
Ruekert & Mielke, Inc.

Ruekert · Mielke

Nasco and City of Columbus

- Rock River Basin TMDL
- Nasco
  - Life Sciences Company, frogs
  - Fort Atkinson
  - Direction discharge to Rock River
    - Frog tanks
    - TMDL requirements

Nasco and City of Columbus

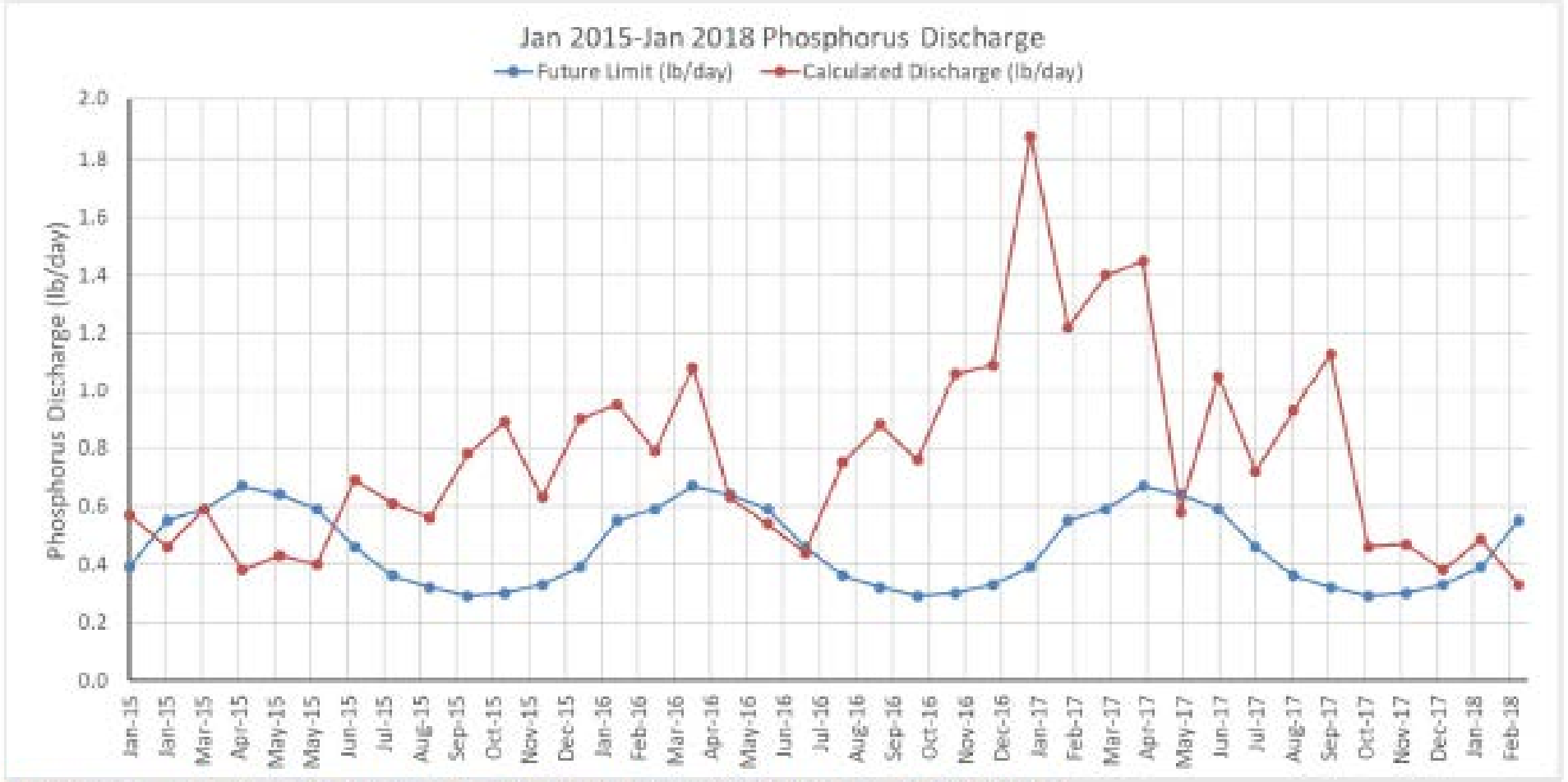


Figure 1 – Nasco Estimated TP Discharge Jan 2015 – Feb 2018

- Courtesy of Montgomery and Associates Resources Solutions, LLC.

Nasco and City of Columbus

- City of Columbus
- TP TMDL

City of Columbus WWTF				
Design Flow (MGD)		1.26		
Treatment Level (mg/L)		0.075		
Month	TMDL Allocation (pounds per day)	Allocation (pounds per month)	Actual Pounds at Design Flow	Excess Pounds
Jan	16.39	508.09	24.43	484
Feb	20.80	582.40	22.07	560
Mar	18.83	583.73	24.43	559
Apr	15.65	469.50	23.64	446
May	14.43	447.33	24.43	423
Jun	14.16	424.80	23.64	401
Jul	14.17	439.27	24.43	415
Aug	15.58	482.98	24.43	459
Sep	16.11	483.30	23.64	460
Oct	15.58	482.98	24.43	459
Nov	15.98	479.40	23.64	456
Dec	14.61	452.91	24.43	428
total				5549

Nasco and City of Columbus

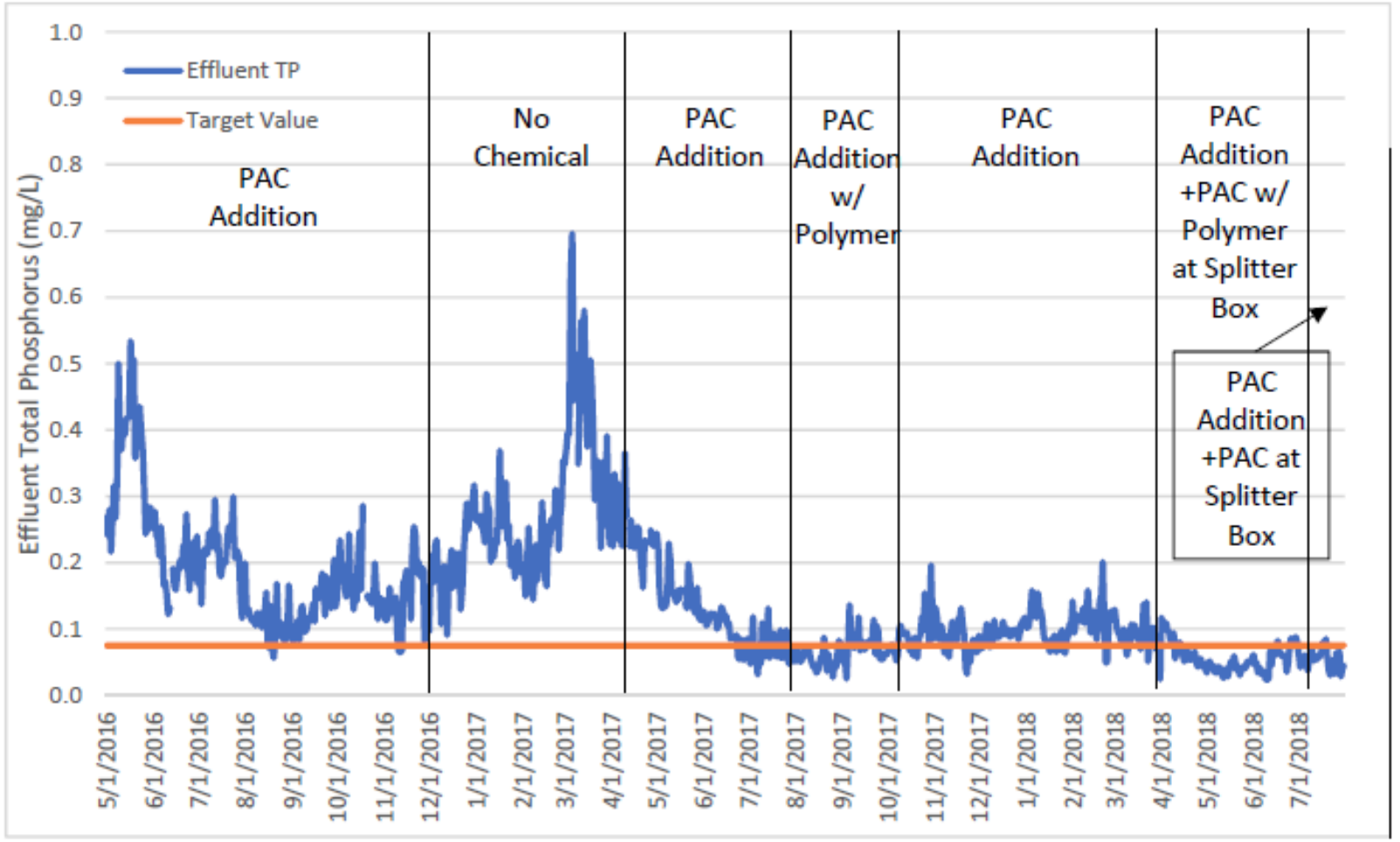
- Agreement Finalized
  - 8/30/2018
  - 10 yr.
  - 5 yr. “Off Ramp”

Village of Slinger / City of Hartford

- WWTF to WWTF Potential Trade for Slinger
  - Not TMDL related
  - Both must meet TP<0.075 mg/L
- Hartford WWTF
  - TP <0.05 mg/L
    - Biological P
    - Optimized Chemical

Village of Slinger / City of Hartford

- Slinger WWTF
  - TP<0.08 mg/L
    - Biological P (Optimized), Optimized Chemical



Village of Slinger / City of Hartford

- Potential Trade Arrangement
- Hartford Trade to Slinger
  - 51 pounds per year
  - 0.008 mg/L TP at Actual Flow
  - Effective Limit: 0.067 mg/L
- Slinger Receive From Harford
  - 43 pounds per year
  - 0.017 mg/L TP at Actual Flow
  - Effective Limit: 0.092 mg/L

POINT SOURCE TO NONPOINT SOURCE TRADING

David W. Arnott, P.E.
Team Leader/Senior Project Manager
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Ruekert · Mielke

Agricultural Coordination

BMPs

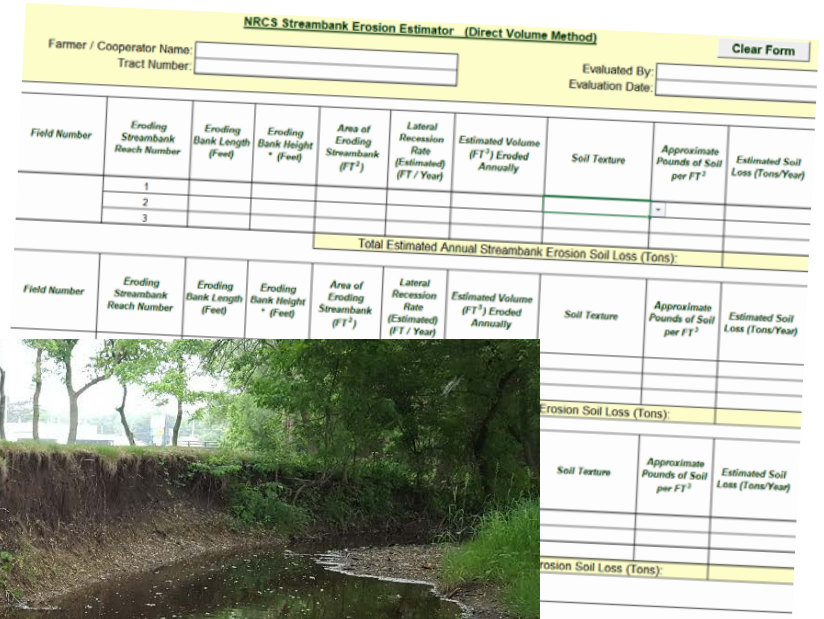
1. Filter strips
2. Buffers
3. Improved Tillage

Agricultural Coordination

4. Cover crops
5. Grassed waterways
6. Retention ponds
7. Wetland restoration
8. Barnyard improvement
9. Nutrient management plans

Streambank Stabilization

- Recent Inventories Focus on Public Land
  - MS4, WWTF permits did not count streambank stabilization projects
  - Not evaluated in previous studies/reports
- Desktop
  - GIS
  - NRCS methodology
- In-Field Inventory
  - Vegetation
  - Access
  - Bank condition
  - Soil samples
  - Habitat

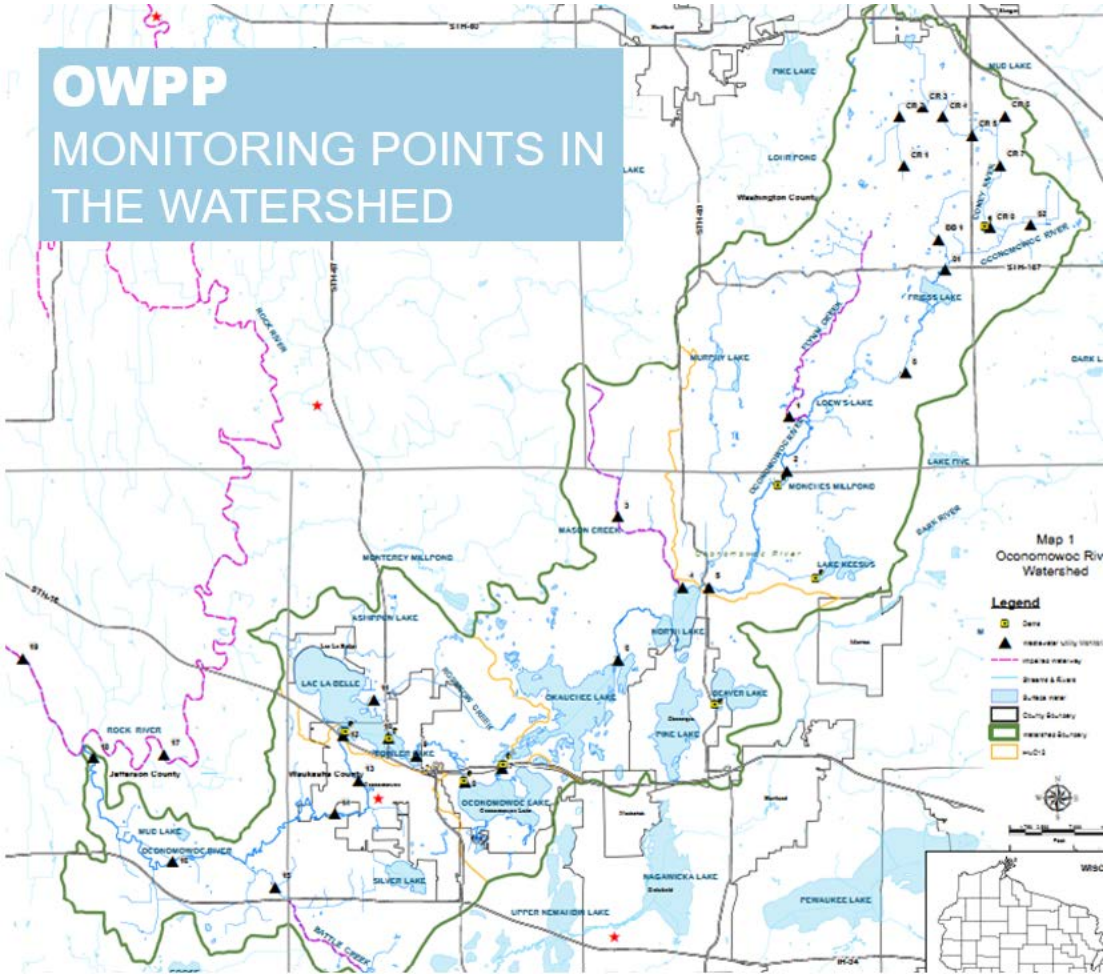

NRCS Streambank Erosion Estimator (Direct Volume Method)

Farmer / Cooperator Name:
Tract Number:
Evaluated By:
Evaluation Date:
Clear Form

Field Number	Eroding Streambank Reach Number	Eroding Bank Length (Feet)	Eroding Bank Height * (Feet)	Area of Eroding Streambank (FT^2)	Lateral Recession Rate (Estimated) (FT / Year)	Estimated Volume (FT^3) Eroded Annually	Soil Texture	Approximate Pounds of Soil per FT^3	Estimated Soil Loss (Tons/Year)
	1								
	2								
	3								

Total Estimated Annual Streambank Erosion Soil Loss (Tons):

City of Oconomowoc



- Adaptive Management
- Compliance for WWTF and MS4 for TP
- Program 5 Years Old

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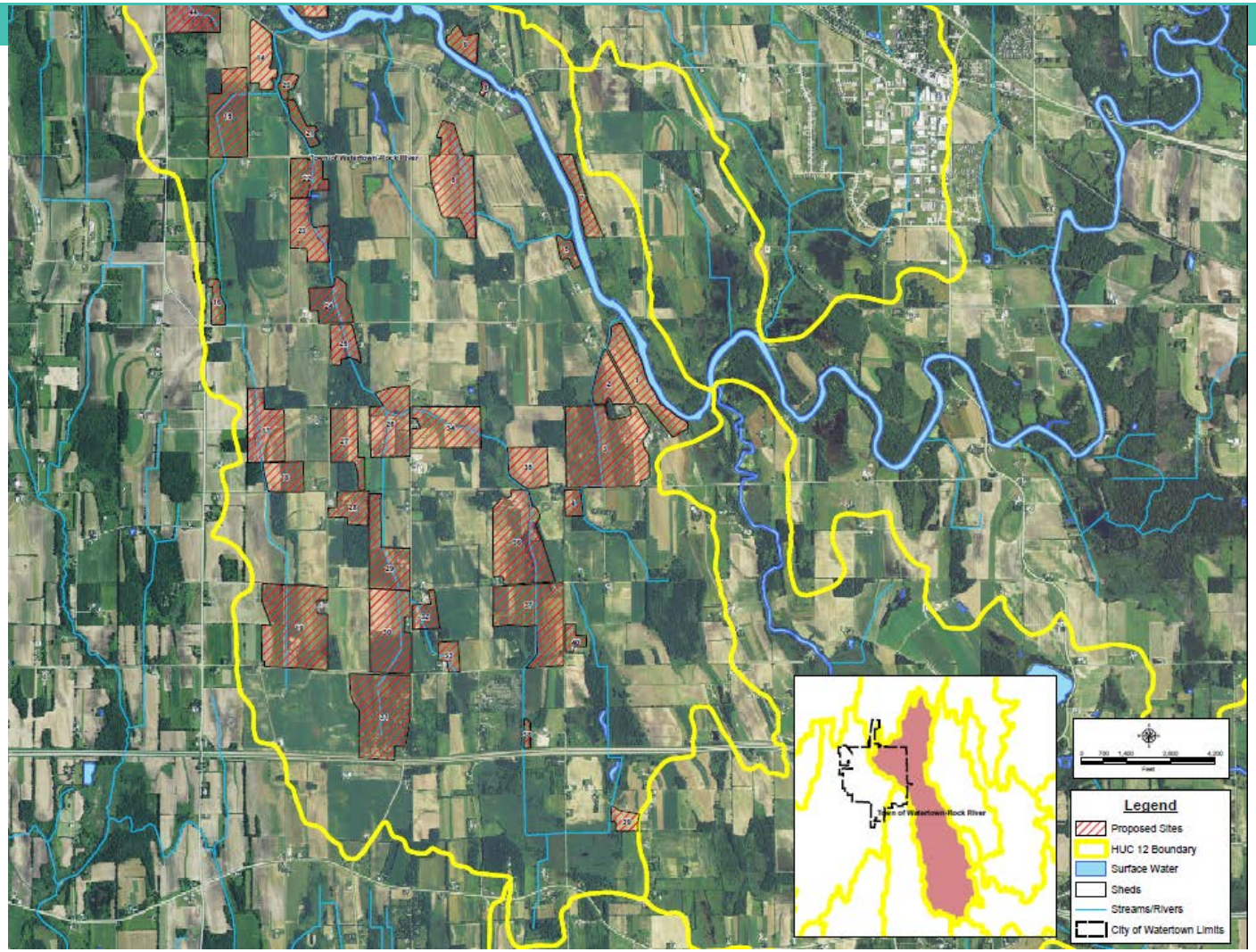
City of Oconomowoc

- GIS Tool Demonstration

City of Watertown

- MS4 Permitted Community
- Rock River TMDL
- WWTF TP Future Permit
  - 0.27 mg/L
  - Presently Optimized to 0.35 mg/L
- Use WQT for WWTF and MS4
- 260 Sites Identified
- STEPL

City of Watertown



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City of Columbus

- Not Permitted MS4 Community
- Rock River TMDL Req’ts Less Stringent for
  - TSS and TP
- WWTF TP Future Permit
  - 0.075 mg/L
  - Optimized to 0.1 mg/L

YOU'RE INVITED

Columbus Agricultural Conservation Team Seminar

AGRICULTURAL CONSERVATION PRACTICES:
- Cover Crops
- Conservation Cover
- Crop Rotation
- Contour Strips
- Grassed Waterways
- Harvestable Buffers
- Low/No Till Practices
- Nutrient Management Plans

BENEFITS TO YOU:
- Improved Soil Health
- Increased Crop Yield
- 100% Funding & Rent Offset
- Cost Savings from Efficient Nutrient Management

BENEFITS TO WATERSHED:
- Decreased Erosion
- Decreased Nutrient Runoff to Waterways
- Improved Water Quality
- Return to Fishable, Swimmable Waters
- Enhance Local Wildlife Habitat & Ecology
- Reduction in Algal Blooms & Other Aquatic Plants

ColumbusACTS

Join us for casual conversation about how you can influence positive change that benefits the watershed and you!

September 12, 2018
5:00 – 8:00p.m.
Savanna Oaks Community Center
100 Savanna Road, Fall River, WI

Subs and soda will be provided by the **City of Columbus Conservation Collective**.

RSVP

EMAIL: pvandersanden@columbuswi.us

CALL: (920) 623-5900

Or fill-out and MAIL form back to:
Patrick Vander Sanden
105 N. Dickason Blvd
Columbus, WI 53925

NAME: _____

ADDRESS: _____

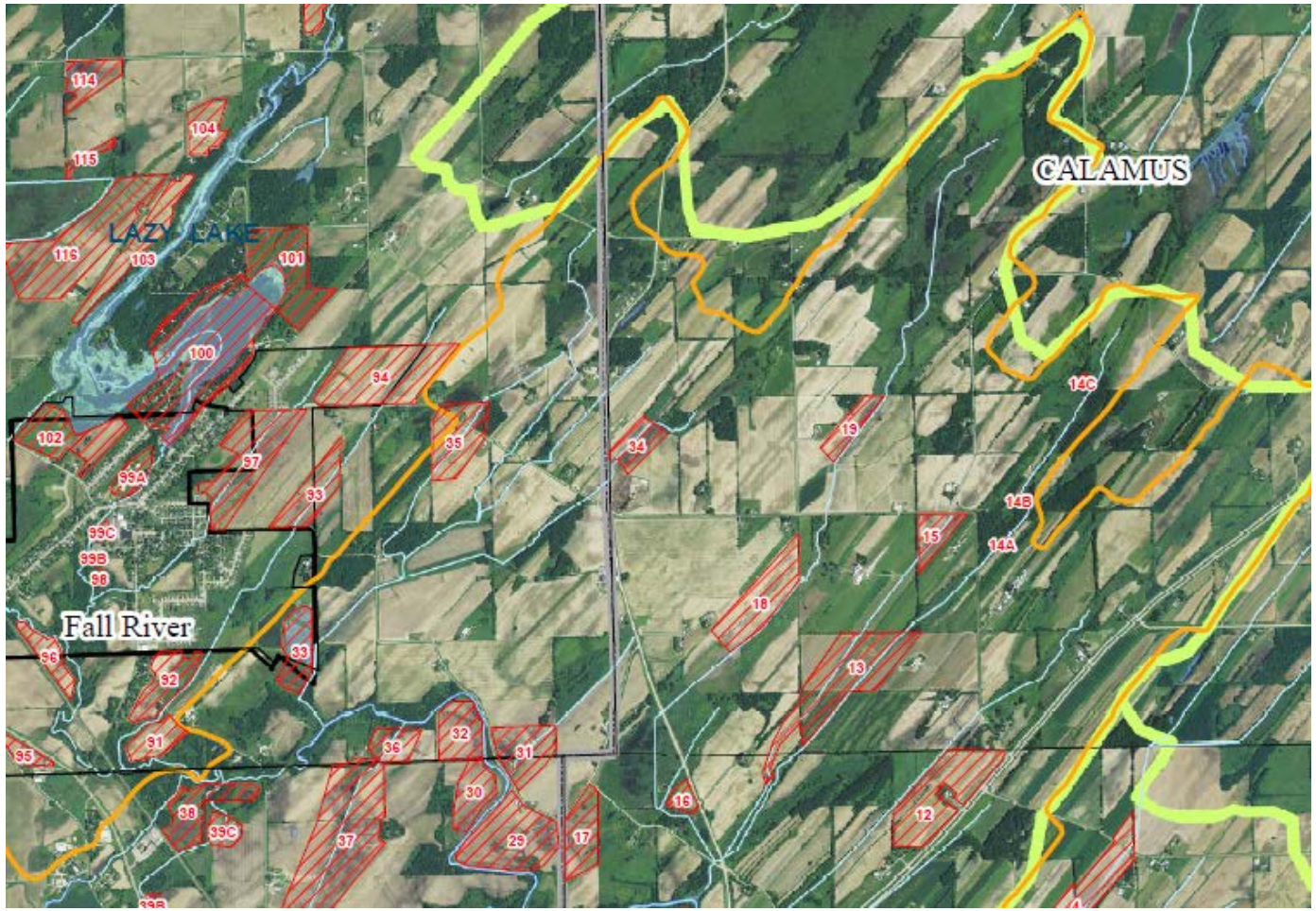
_____

PHONE: _____

EMAIL: _____

City of Columbus

- Use WQT for the Increment
- Need Reductions of 266 Pounds Per Yr.
- 230 Sites Identified, STEPL



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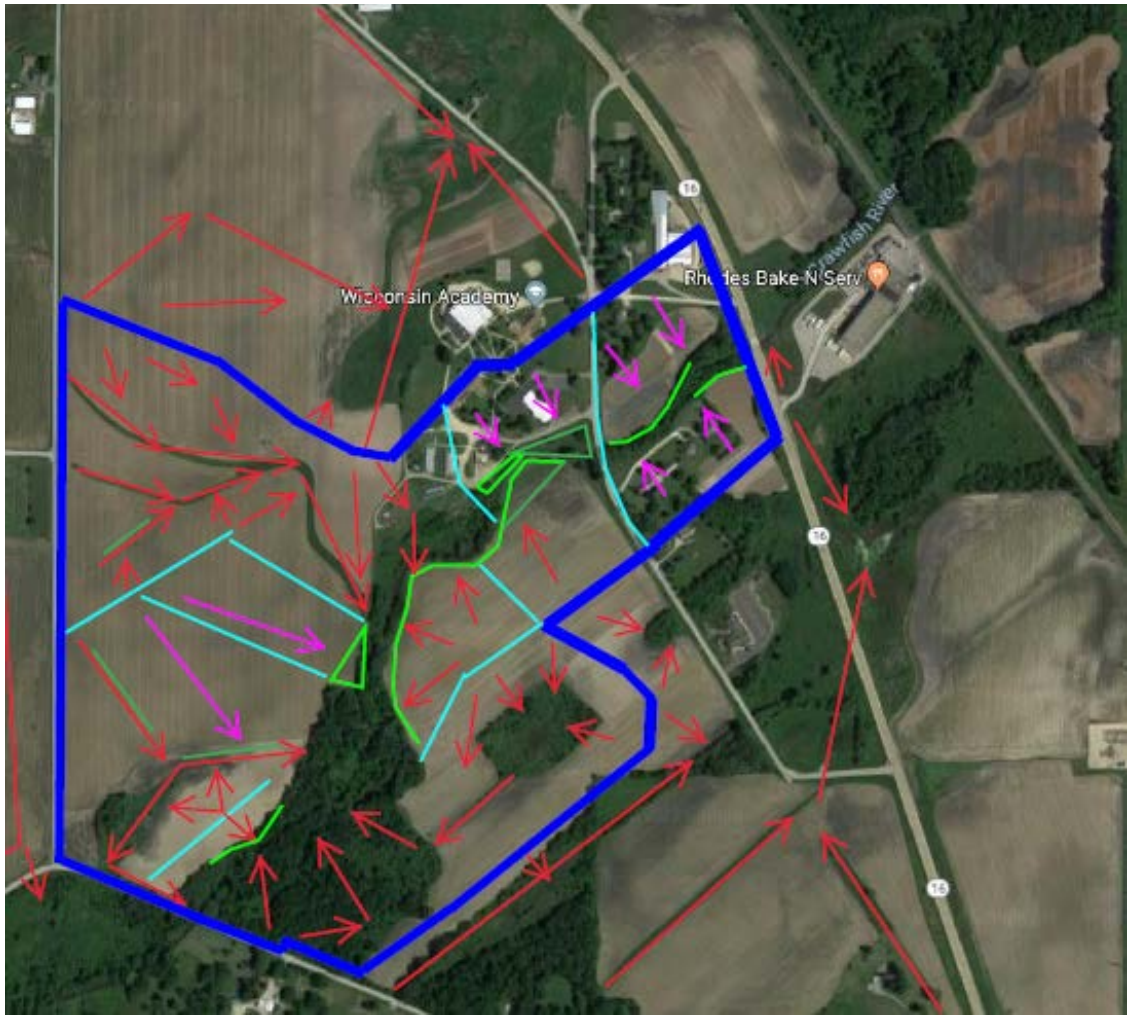
City of Columbus



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DOWNTOWN & RIVERFRONT REDEVELOPMENT

Maureen McBroom
Environmental Coordinator
Ruekert & Mielke, Inc.

Ruekert · Mielke

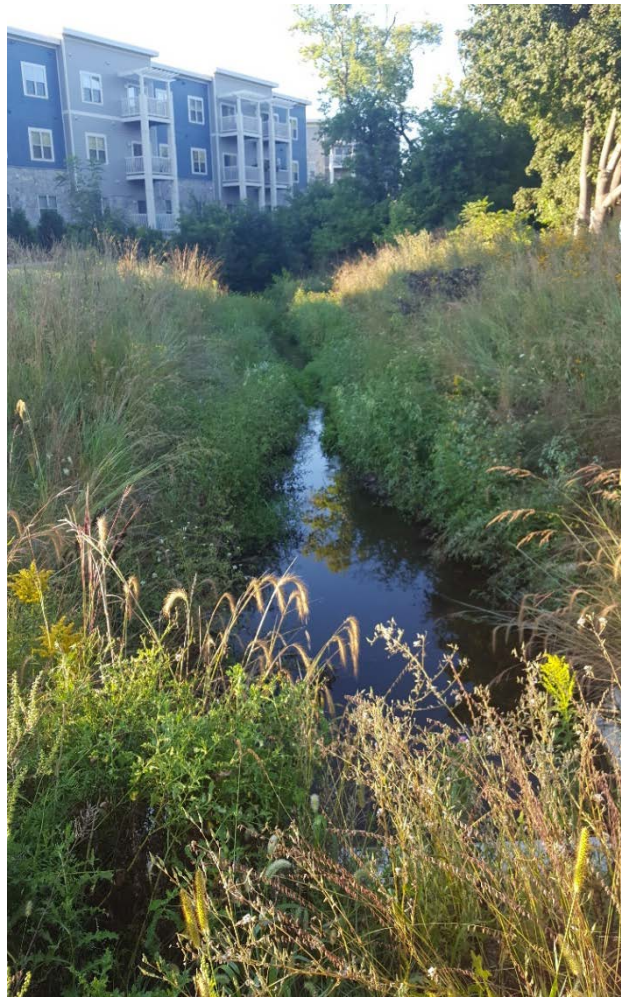
Is There a River Here?

- Historic Centers of Town
  - Town grew out from one of both sides of the river
  - Not easy to access (or sometimes see from bridges)
  - Past industrial use along riverbanks
    - Large buildings, parking lots, impervious areas
  - Development traditionally “turned its back” on river
    - Back of buildings faced river

Yes, There is a River Here!

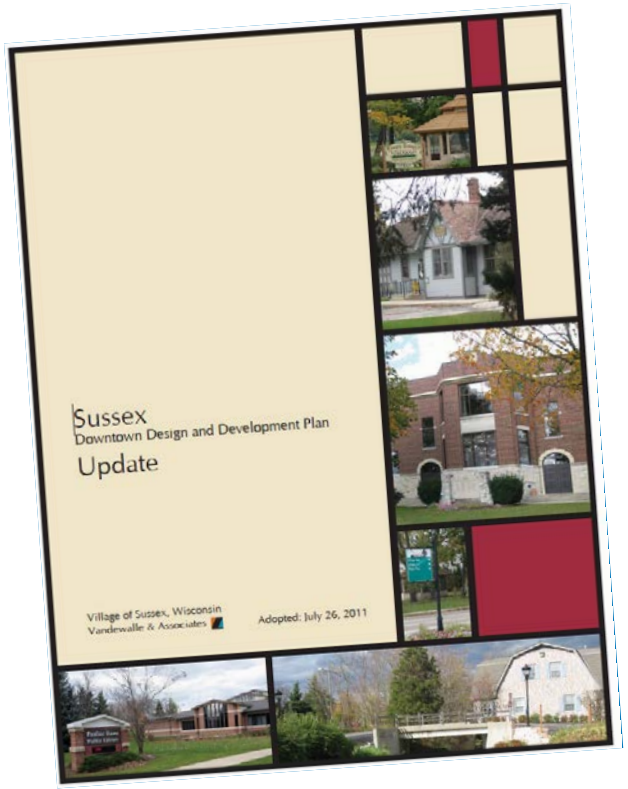
- Economic Redevelopment Opportunities?
  - Revitalize downtown areas
    - Shops, restaurants, apartments/condos/homes
    - Incorporate storm water treatment into plans
  - Create access to streams, rivers, lakefronts
    - Bike, walking paths, park benches
    - Kayak, boat access
  - Support from businesses, Chamber of Commerce
    - Coordinated farmer's market, themed events

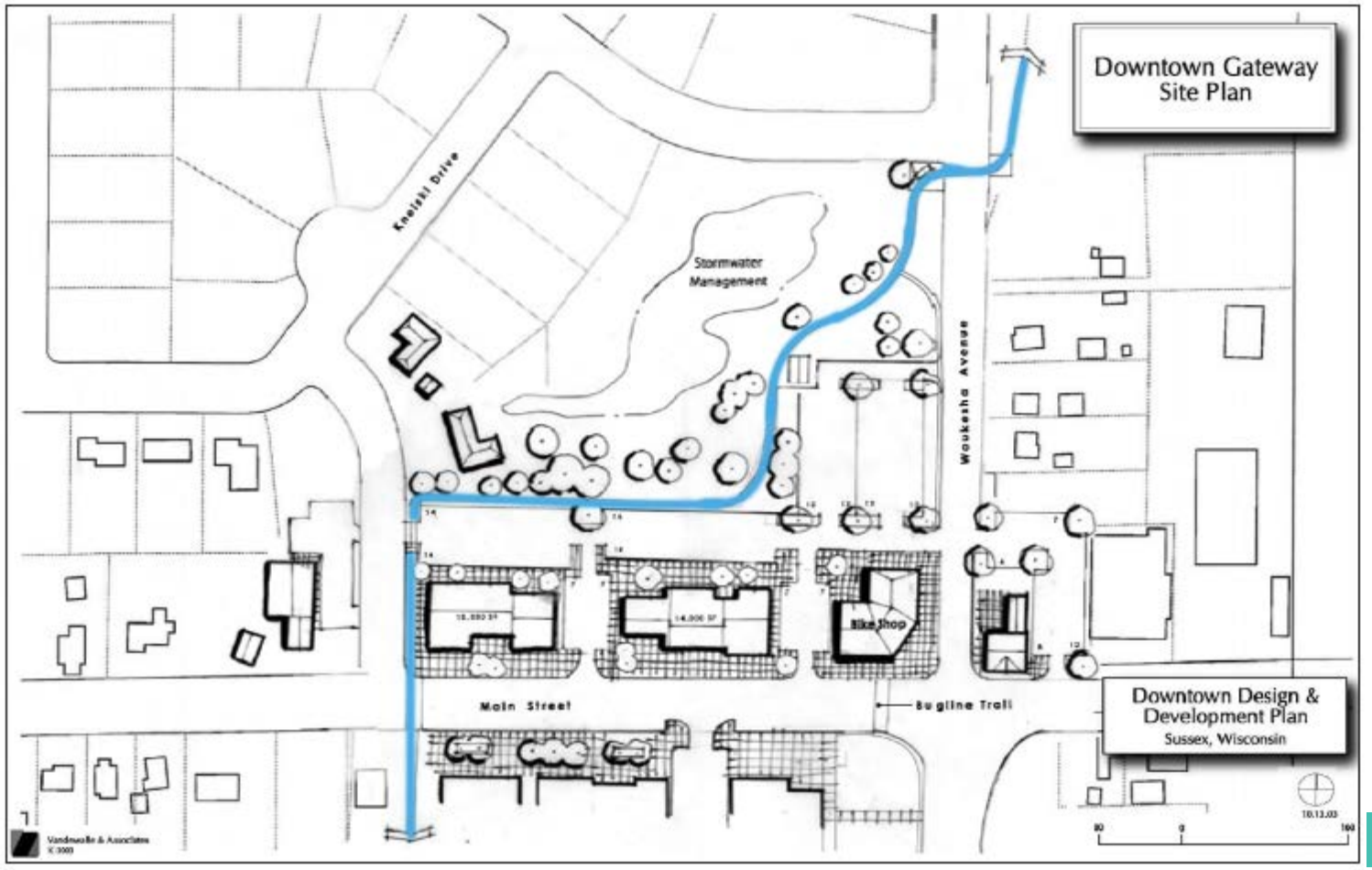
Re-create or re-enforce the "Destination Location"



Sussex – Cooperation and Progress

- Village, County, Private Development, State Grant Funding





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Watertown Redevelopment

Riverfront Development/Redevelopment Recommendations

Objectives:

1. Improve public access to the riverfront.
2. Enhance the river as a major focal point of the Downtown.
3. Promote appropriate redevelopment along the river.
4. Create a riverfront district.
5. Enhance the river's environmental character and scenic beauty.
6. Promote the river as an educational and recreational resource.

Watertown Riverfront/Downtown Redevelopment Initiative

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Elm Grove – Restoring Underwood Creek

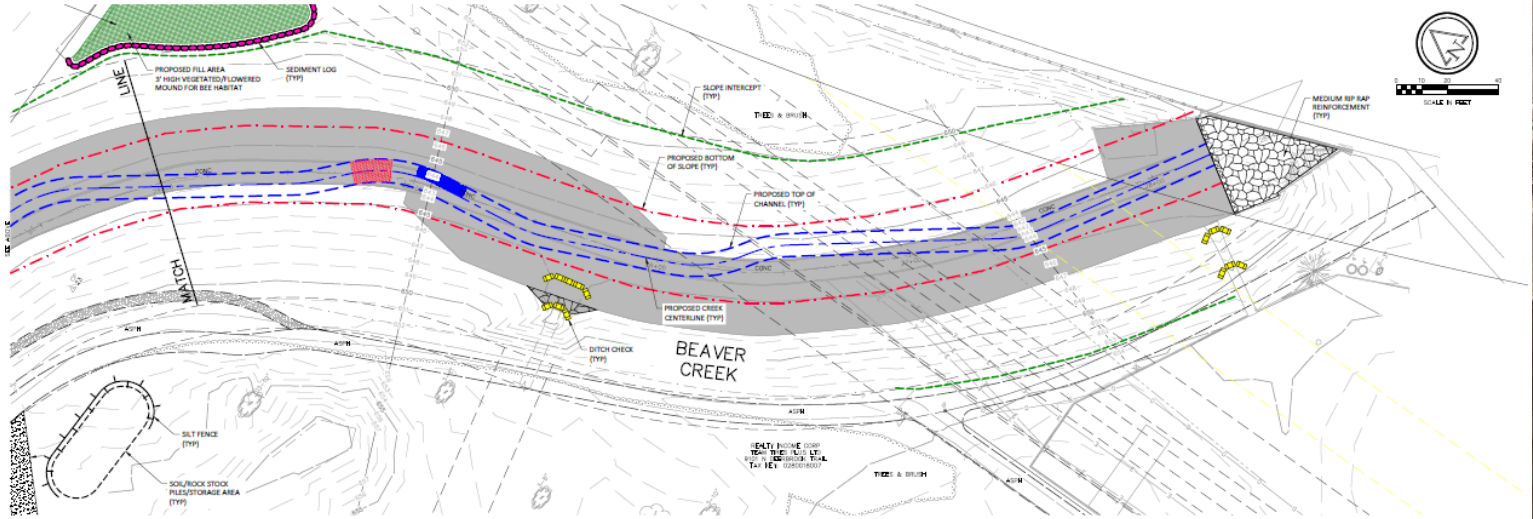
- Business, community support for restored creek in downtown

Elm Grove to bring covered creek back to daylight

Neil Palmer, Village of Elm Grove president, stands in front of the area off Watertown Plank Road where Underwood Creek heads underground and passes underneath the Sendik's parking lot. Elm Grove plans to bring daylight back to a portion of the creek that has been covered with concrete for decades. Credit: Michael Sears

Brown Deer – Beaver Creek Naturalization

- Tributary to Milwaukee River
- 1700 Feet of Concrete-Lined Creek
- 303(d) Listed for Too Much Phosphorus
- Multiple Grants



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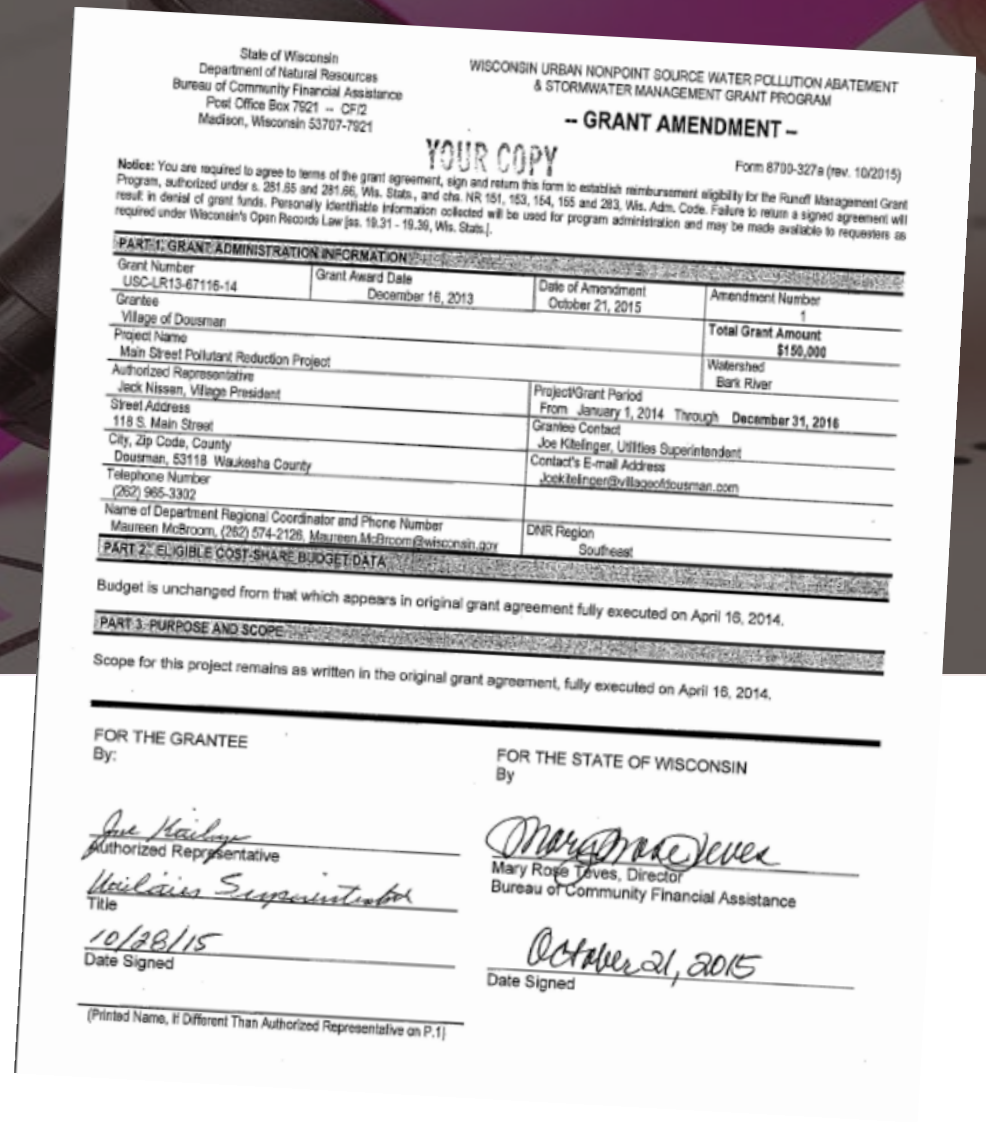
Portage – Wetland Mitigation?

- Municipally-owned wetland mitigation site?
  - Minimizes sediment load to adjacent river as compared to current ag. field use
  - Income generator for City

GRANT OPPORTUNITIES



State of Wisconsin
Department of Natural Resources
Bureau of Community Financial Assistance
Post Office Box 7921 -- CF/2
Madison, Wisconsin 53707-7921

WISCONSIN URBAN NONPOINT SOURCE WATER POLLUTION ABATEMENT & STORMWATER MANAGEMENT GRANT PROGRAM

-- GRANT AMENDMENT --

YOUR COPY

Form 8700-327a (rev. 10/2015)

Notice: You are required to agree to terms of the grant agreement, sign and return this form to establish reimbursement eligibility for the Runoff Management Grant Program, authorized under s. 281.65 and 281.66, Wis. Stats., and chs. NR 151, 153, 154, 155 and 283, Wis. Adm. Code. Failure to return a signed agreement will result in denial of grant funds. Personally identifiable information collected will be used for program administration and may be made available to requesters as required under Wisconsin's Open Records Law [ss. 19.31 - 19.39, Wis. Stats.].

PART 1: GRANT ADMINISTRATION INFORMATION

Grant Number USC-LR13-67116-14	Grant Award Date December 16, 2013	Date of Amendment October 21, 2015	Amendment Number 1
Grantee Village of Dousman			Total Grant Amount $150,000
Project Name Main Street Pollutant Reduction Project			Watershed Bark River
Authorized Representative Jack Nissen, Village President		Project/Grant Period From January 1, 2014 Through December 31, 2016	
Street Address 118 S. Main Street		Grantee Contact Joe Kitelinger, Utilities Superintendent	
City, Zip Code, County Dousman, 53118 Waukesha County		Contact's E-mail Address Joekitelinger@villageofdousman.com	
Telephone Number (262) 965-3302			
Name of Department Regional Coordinator and Phone Number Maureen McBroom, (262) 574-2126, Maureen.McBroom@wisconsin.gov		DNR Region Southeast	

PART 2: ELIGIBLE COST-SHARE BUDGET DATA

Budget is unchanged from that which appears in original grant agreement fully executed on April 16, 2014.

PART 3: PURPOSE AND SCOPE

Scope for this project remains as written in the original grant agreement, fully executed on April 16, 2014.

FOR THE GRANTEE
By:

Joe Kitelinger
Authorized Representative

Utilities Superintendent
Title

10/28/15
Date Signed

(Printed Name, If Different Than Authorized Representative on P.1)

FOR THE STATE OF WISCONSIN
By

Mary Rose Loves
Mary Rose Loves, Director
Bureau of Community Financial Assistance

October 21, 2015
Date Signed

Maureen McBroom
Environmental Coordinator
Ruekert & Mielke, Inc.

Ruekert · Mielke

Location, Location, Location

- Many Water Grants Are Applicable to Certain Areas
  - Watersheds
  - Great Lakes Basin
  - Coastal areas

- Know the Grant Programs
  - Align your project with the grant program goals
    - Habitat, Quality vs. Quantity, Access
    - Grant program areas

One Project > Multiple Grants?

- Some Grants Can be Used in Conjunction with Other Grants
  - …but not all grants work well together
  - Privately funded grants typically work well with publicly-funded grants
- Contact the Grant Program Managers
  - Discuss your project
  - Ask questions about grant/application

Water Grants vs. Other Grants

- Water Related Grants
  - DNR UNPS & SW Construction
  - DNR UNPS & SW Planning *(applications due April 2019)*
  - DNR River Management & Planning
  - Fund for Lake Michigan *(pre-applications due 9/24/18)*
  - Sustain our Great Lakes
  - WI Coastal Management
  - DNR Municipal Flood Control
  - DNR Recreational Access

Fund for Lake Michigan
Clearly making a deep impact.

Wisconsin Coastal Management Program

SUSTAIN OUR GREAT LAKES

WISCONSIN DNR
Department of Natural Resources

Water Grants vs. Other Grants

- What other fundable activities are tied to the water quality improvement project?
  - NRPA Great Urban Parks
  - PetSafe “Bark for your Park”
  - EPA Brownfields
  - DNR Urban Forestry

NRPA National Recreation and Park Association
Because everyone deserves a great park

PetSafe
SAFE PETS HAPPY OWNERS

BARK FOR YOUR PARK™

EPA United States Environmental Protection Agency

WISCONSIN DNR
Department of Natural Resources

DNR UNPS & SW Planning

- 2-year Competitive Reimbursable Grants
- 50% Cost-Share
- 4/15/19 Application Due Date
- MS4 Permits: 2018-2023 or 2019-2024
  - 2020-2021 Grant Period

- MS4 Permit Programs
- TMDL WinSLAMM Modeling & Alternatives
- Multi-Community Planning
- Storm Water Funding Analysis
- Ordinance Revisions
- Information/Education Programs

QUESTIONS?

David W. Arnott, P.E.
Team Leader/Senior Project Manager
Ruekert & Mielke, Inc.

Maureen A. McBroom
Enviromental Coordinator
Ruekert & Mielke, Inc.

Save the Date

September 26, 2018

WEBINAR: Business Park Readiness: Organizing Your Infrastructure Planning to Be Build-Ready

Online

November 7, 2018

SEMINAR: The Utility Rehabilitation Toolbox: The Correct Tool for the Job

Waukesha, WI

November 15, 2018

SEMINAR: The Utility Rehabilitation Toolbox: The Correct Tool for the Job

Menasha, WI

Ruekert • Mielke

Thank You!

We appreciate your feedback.
Watch for the survey.
(Please indicate on survey if you'd like a PDH certificate.)