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Water Star Wisconsin, Rock River Coalition, UWEX and WDNR present

Municipal Water Resource Management

2012 Webinar Series

Wisconsin professionals and case studies

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Behind every successful innovation in storm water, surface water, and groundwater management, there is an idea, a champion and a risk. Join us for the 2012 webinar series and find out how other Wisconsin cities, villages and towns are making creative improvements in their operations under similar cost, labor and time constraints as you face.

You will learn from their successes (and failures) on matters like salt and deicing techniques, stormwater utilities, dam maintanance, permeable pavement, leaf collection and disposal, stormwater pond maintenance, wastewater energy recovery and guidance on dealing with illicit discharge.

Who Should Attend: Open to municipal staff, consultants, agency staff, businesses, elected officials and interested citizens.

About Go-To-Webinar: Go-To-Webinar is a service where you can view and participate in a presentation over the Internet and listen to the presenter either via your computer using a headset or your phone. There is no charge for connecting over the Internet. See the information at the bottom of the flyer for system requirements.

2012 Webinar Series *(Every other Thursday, 12pm -1pm, 9/6-12/13)*

Sept. 6	Porous Pavement in Tight Spots
Sept. 20	BMP Maintenance, Ponds Over the Long Haul
Oct. 4	Leaf and Lawn Waste Disposal From a City That Has Tried it All
Oct. 18	The Utility of Stormwater Utilities / Plus: Wellhead Protection Incentive Program
Nov. 1	Salt and Deicing That Gets the Job Done and Minimizes Environmental Impact
Nov. 15	Waste to Fuel - Energy Capture from Wastewater Treatment Plants
Nov. 29	Illicit Discharge, Detection, and Elimination - New Guidance From DNR
Dec. 13	Dam Removal and Maintenance - A Tale of Three Dams


Bob Givens

Ben Jordan


UWEX


Ben Jordan


DNR


UWEX

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WISCONSIN DEPT. OF NATURAL RESOURCES

Rock River Coalition

2012 Topics

September 6, 2012 (Noon - 1pm)

Pervious Pavement in Tight Spots

Includes DNR update on Wisconsin's Technical Standard for pervious pavement!

OMNNI & Associates

Cast Study: Porous Asphalt Pavement at EAA's AirVenture

Pete Wood, Water Resources Engineer, WDNR
Bob Givens, Lead Engineer and Program Manager, OMNNI & Associates
Paul Eggen, Material Testing Manager, OMNNI & Associates

Pete will update us on DNR's recently initiated process to develop a technical standard for pervious pavements. This technical standard will specify the minimum requirements needed to plan, design, install and maintain pervious pavements for compliance with NR 151 performance standards.

When it comes to air shows EAA's AirVenture is tops in the world. To expand, a new system of roads, taxiways and trails were necessary. As it came time to set aside space for stormwater management, the space that made the most sense topographically was the also most valuable from an exhibitor visibility standpoint. This provided the incentive for OMNNI Associates and EAA to look at numerous nontraditional methods to reduce runoff and improve water quality without losing valuable exhibit space. When it came down to it, porous asphalt along with a complex drainage system and biofilters were the answer. This presentation deals with design, construction and maintenance of these systems along with the specific challenges associated with this complex site.

September 20, 2012 (Noon - 1pm)

BMP Maintenance - Ponds Over the Long Haul

Includes DNR reminder on rules impacting BMP sediment removal & maintenance.

Case Study: Waukesha County and New Berlin's Experiences with BMP Inspection & Maintenance

Jim Bertolacini, Stormwater Program Coordinator, WDNR Central Office
Perry Lindquist, Land Resources Manager, Waukesha County Department of Parks & Land Use
Corliss Tischer, Code Enforcement Specialist, City of New Berlin

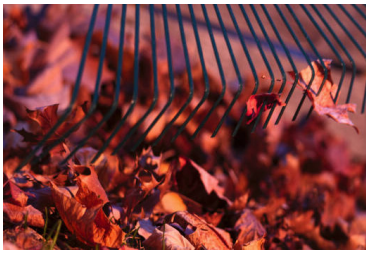
UW-Extension

Jim will remind us about Chapter NR 528, a rule to help storm water pond owners manage the removal and use of pond sediment. He will also remind people how Wisconsin Act 32 (the FY 2012-2013 biennial budget bill), requires permitted municipalities, to the maximum extent practicable, to maintain all of the best management practices that the municipality implemented on or before July 1, 2011.

Perry will provide an overview of BMP maintenance and the critical steps involved, starting with site planning, ensuring proper BMP construction, recording of maintenance agreements and easements during land divisions. He will also review examples of BMP inspections, maintenance, tracking systems and some of the institutional challenges of enforcing BMP maintenance, especially if deed restrictions were not recorded up front. Corliss will share record-keeping, communication, and enforcement tools she has used in managing, inspecting, and enforcing the City of New Berlin's zoning codes, including erosion control and post-construction stormwater management inspection.

October 4, 2012 (Noon - 1pm)

Leaf and Lawn Waste Disposal From a City That Has Tried it All



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Case Study: City of Madison Leaf Collection

George Dreckmann, Recycling Coordinator, City of Madison
Megan Kelly, Project Manager, Biodiversity Project

Madison collects and processes 16,000 tons of leaves each fall. Over the years, George and his staff have field tested many methods that satisfy the citizens and officials of Madison, protect Madison's many lakes, and is budget-conscious. George will outline strategies the City now uses and why they are favored. He will also discuss the methods and equipment he has experience with and how they may work for the different circumstances other cities are in.

Since 2010, the Rock River Stormwater Group (RRSG) has implemented several outreach campaigns related to fertilizing, composting and yard waste. Meg will talk about their successes in those campaigns. RRSG is a coalition of municipalities in the Rock River Basin that has joined together to address their MS4 permitting requirements for outreach and education. By pooling resources they have engaged Biodiversity Project – a nonprofit environmental communications organization – to assist with implementing campaigns related to each of the permit's issue areas including BMPs for leaf, grass and yard waste.

October 18, 2012 (Noon - 1pm)
The Utility of Stormwater and Water Utilities

Cast Studies: Wisconsin Rapids Stormwater Utility & Waupaca's Wellhead Protection Farmer Incentive Program

Ann Dansart Hirekatur, P.H., CSM, MSA Professional Services
Joe Eichsteadt, Design Engineer, City of Wisconsin Rapids
John Edlebeck, Director of Public Works, City of Waupaca

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In times of tight budgets and rising program costs, many Wisconsin communities have turned to stormwater utilities to fund their stormwater management programs. In fact, over 80 Wisconsin communities now fund their stormwater programs via stormwater utilities. Many more communities are either currently considering the feasibility of or are in the process of forming utilities. Stormwater utilities can address issues such as local flooding, drainage relief, regulatory compliance, municipal "housekeeping", and maintenance and replacement of aging and/or undersized infrastructure. In this first part of this webinar, Ann Hirekatur, PH, CSM and Joe Eichsteadt, PE will provide an overview of stormwater utilities in Wisconsin, including who has them and emerging trends in rates, rate structure types and credit policies. Ann will suggest some first steps and keys to success for communities considering a stormwater utility. Joe will present an overview of Wisconsin Rapids' utility, including the development process, what it's funded over the years, and how things are working today.

In the second part of the program, John Edlebeck from Waupaca, will discuss an innovative way his community has used public funds to protect water quality. When Waupaca started to detect high levels of nitrates in its groundwater supply from fertilizer activities on farms near city wells, it tackled the challenge head on. The city could not restrict the use of fertilizer on farms near city wells, so it instead offered incentives. Nitrates are still a concern, but since the cropping agreement began, levels in the city's water have generally remained well within acceptable limits.

November 1, 2012 (Noon -1pm)
Salt and Deicing that Gets the Job Done & Minimizes Environmental Impact

Case Study: Use of liquid deicers Village of Hanover Park IL

Ben Jordan, Program Director, University of WI Madison College of Engineering
Scott Weber, Street/Forestry Supervisor, Village of Hanover Park, IL
Moe Norby, Technical Support Manager, Polk County Highway Department

Citizens expect more than ever that winter roads will be drivable all of the time, and they also want environmental impacts to be kept to a minimum. Ben will discuss creative strategies for winter street and highway maintenance that can maintain winter road safety while reducing the amount of salt put into the environment. Scott will tell how Hanover Park's concern for the DuPage River Watershed was a driver behind changes in winter maintenance practices that reduced salt use by over 40% while maintaining clear roads. Scott will address the type of equipment the Village uses, the chemicals they make and blend, application rates, blend rates , and equipment costs. He will show the cost saving they achieved by making their own brine and producing their own blends.

Moe will explain how Polk County partnered with a local dairy and worked with the DNR to beneficially reuse brine waste from cheese making as a road deicer, reducing chloride discharges and winter maintenance costs.

Ben Jordan

November 15, 2012 (Noon - 1pm)
Waste to Fuel: Finding and Utilizing Energy from Wastewater

Case Study: How Janesville uses sewer treatment plant by-products to create energy and fuel

Dave Botts, Utility Director, City of Janesville

Joseph Zakovec, Wastewater Superintendent, City of Janesville

The City of Janesville undertook a $32 million sewer treatment plant upgrade to position the facility to handle projected future treatment requirement as well as creating ways to use the by-products of the process to create energy and fuel for vehicles. The treatment plant improvements provided additional methane to operate a set of micro turbines creating power to sell to the local utility company. The methane is further cleaned to create compressed natural gas to fuel new vehicles purchased by the Utility. Solar was added to the new Administration office to further reduce the plant's cost for energy. Joe and Dave will walk you through the improvements and describe the energy savings currently enjoyed by the Utility.

City of Janesville

November 29, 2012 (Noon - 1pm)
Illicit Discharge, Detection and Elimination - Guidance from WDNR

Case Study: IDDE programs in Cities of Greenfield and Racine

Pete Wood, Water Resources Engineer, WDNR

Chuck Boehm, AECOM, City of Racine

USEPA

Pete and Chuck will focus on several items related to IDDE in Wisconsin including: essential components of an illicit discharge detection and elimination program including storm sewer system mapping, ordinances, response procedures, outfall field screening and documentation. Their presentation will also cover key features of the recently published DNR guidance document regarding illicit discharge detection and elimination, and share examples of effective illicit discharge detection and elimination activities conducted in the City of Greenfield and City of Racine.

December 13, 2012 (Noon - 1pm)
Dam Maintenance and Removal - A Tale of Three Dams

Case Study: Dam removal and repair from the Village of Grafton & City of Columbus

David Murphy, Director DPW, Village of Grafton

Dale Buser, PE, PH, Hydrologist, Endpoint Solutions/Anderson Perry & Associates

Kent Fish, Structural Engineer, General Engineering

David will outline his experiences at the Village of Grafton as it grappled with the decision to remove or to repair two dams. A third dam had earlier been removed to provide floodplain reduction. David will stress how each dam required a unique response and review process, with criteria beyond functionality and cost concerns. Citizen affection for one of the dams evoked a community effort to save it, while the other dam was removed for floodplain reduction, reduced expense and liability, and to clear fish passage from Lake Michigan to Grafton. Dale will tell of some of the decision-making processes and technical challenges each situation posed.

WDNR

Kent will address the Udey Dam removal project. In 2004, the Department of Natural Resources required the City of Columbus to remove the stop logs from the Udey Dam, in order to drain the impounded lake, which had impaired water quality, and to address dam stability issues. Citizen desire to restore the lake caused the City of Columbus to take needed efforts to repair the dam. Throughout its development, Kent and General Engineering Company worked with the city to obtain grants and funding to cover 50% of the cost for the comprehensive project, totaling $280,000. Ultimately the dam required design, stability and functionality repairs. In September, 2011, the city reopened the Udey Dam for operation. With the replacement of stop logs, dam operators can quickly and smoothly open the dam gates by cranking a wheel. Formerly, this operation was a difficult and time-consuming task for the city.

2012 Presenters:

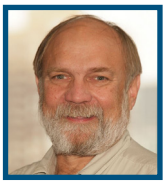
Jim Bertolacini, Storm Water Program Coordinator, WDNR Central Office Madison coordinates and implements the DNR's storm water discharge permit program developing program policy, guidance, and training. He also consults with the U.S. Environmental Protection Agency and other state agencies on storm water issues and responds to public inquiries. Jim received his Master of Science in Environmental Science from Indiana University in 1991 and has been employed with the DNR since 1992.

Chuck Boehm, AECOM, City of Racine is a senior engineer with AECOM and heads up their Milwaukee Water Operations. He has 20 years of experience working with Wisconsin communities developing and implementing all aspects of their municipal storm water management programs. Working as an extension of municipal staff, he assists with engineering studies, design of flood management and water quality improvement bmps, storm water discharge permit compliance, and development of storm water utilities as a funding mechanism for storm water programs. Municipal storm water discharge permit compliance assistance includes a variety of activities such as Illicit Discharge Detection and Elimination (IDDE) programs and water quality assessment of compliance components. He assists approximately eight municipalities with their annual IDDE programs. Recently he was a part of the Wisconsin Department of Natural Resources Illicit Discharge Guidance Team, helping to develop *Program Guidance to Wisconsin Municipalities on IDDE* which was released in March of 2012.

Dale Buser, PE, PH, Hydrologist, Endpoint Solutions/Anderson Perry & Associates is a licensed professional engineer, professional hydrologist, and certified soil tester with 30 years of professional water resource and environmental engineering and management experience. Dale has extensive experience working with large stakeholder groups with often time disparate goals on complex water resource management challenges. These projects have included a long list of dam management, repair, removal and retrofit projects with a particular emphasis on obsolete mill dams. Dale currently is working with Endpoint Solutions in the Milwaukee area and Anderson Perry and Associates of Oregon on a range of novel water and environmental management projects. He is also actively engaged on many conservation themed initiatives including serving on the board of directors of 3 grassroots organizations.

Dave Botts, Utility Director, City of Janesville began his professional career in 1980 after graduating from Southern Illinois University in Engineering by working for consulting engineering firms until the fall of 1990. At this time Dave took a position as Project Engineer with the City of Beloit, WI. In 1996 he completed his graduate program in Public Administration prior to becoming the Public Works Director for the City of Beloit in 1997, and led that department until 2011. Dave became the Utility Director for the City of Janesville in 2012. Dave is a licensed Professional Engineer in the State of WI.

Ann Dansart Hirekatur, P.H., CSM MSA Professional Services has over 11 years of experience in watershed management and monitoring, hydrologic and water quality modeling, NPDES permitting, BMP design, ordinance writing, and stormwater utility development. She served as the information and outreach coordinator for several municipal stormwater consortiums and has designed and facilitated stakeholder decision-making processes for ten municipalities in WI and IA. Ann has Masters' Degrees in Hydrogeology and in Water Resources Management from UW-Madison. She is a licensed Professional Hydrologist in Wisconsin, and a Certified Stormwater Manager by the American Public Works Association. Ann is a member of the Wisconsin Water Star Steering Committee and the Wisconsin Groundwater Advisory Committee.



George Dreckmann, Recycling Coordinator, City Of Madison has served in his current position since 1989. He oversees a program that serves over 65,000 households and diverts over 66% of their waste from the landfill. In addition to the recycling program he is responsible for all of the public education efforts of the Streets Division including winter parking, street repair and maintenance, and solid waste services. Current projects include leading the team that is planning an organics diversion program, helping set standards for contracted snow plowing equipment, and teaching waste reduction to high school and college classes. In 2004 the Associated Recyclers of Wisconsin (AROW) named George Wisconsin Recycler of the Year. He has served as a Board member of AROW and was also that organization's President. On the national level he has served as Chairman of the Board of Directors of the National Recycling Coalition. He has degrees in American History and Secondary Education from the University of Wisconsin-Madison. Prior to joining the Street Division he worked as a budget analyst for the Wisconsin State Senate specializing in natural resource and education. George is married and the father of two children. The non-human inhabitants of his household include three cats. When not in the office he enjoys playing softball, soccer, volleyball and basketball. He is also a rabid St. Louis Cardinals fan.

John Edlebeck, Director of Public Works, City of Waupaca was born and raised in Appleton, Wisconsin. He graduated from the University of Wisconsin – Madison in 1983 with a BS College of Civil & Environmental Engineering, emphasis in transportation and wastewater. He worked for an Illinois civil engineering consulting firm for 2 ½ years designing and inspecting federally funded roadway reconstruction projects until he became the City Engineer for the City of Geneva, IL for the next 10 years, overseeing all aspects of public works design and construction projects during a doubling of Geneva's population. He worked on not only new and expanded utility and roadway projects, but also the rehabilitation of public infrastructure of a city that was over 160 years old. During this time he received his State of Wisconsin and Illinois Professional Engineers License. In 1996 he accepted the position of City of Waupaca Director of Public Works/City Engineer overseeing the following areas:Potable Water System, Sanitary Sewer Collection System, Storm Sewer System, Wastewater Treatment Plant, Vehicles and Vehicle Maintenance , City Public Buildings and Facilities, Waupaca Area Recycling & Compost Center, City Cemetery, City Forestry, Roadway System, Private Developer Assistance

Paul Eggen, PG, CET, Material Testing Manager, Omnni & Associates heads OMNNI's AASHTO accredited materials testing laboratory and has over 28 years of experience in materials testing of concrete, soils and asphalt. Paul designs hot mix asphalt (HMA) mixes for a wide variety of producers and projects throughout Wisconsin, including WisDOT-approved mixes, porous mixes, and mixes containing glass aggregate, crumb rubber, fractionated and unfractionated recycled asphalt pavement and recycled asphalt shingles. Paul is committed to continuous research and testing of new and innovative mix designs and applications. He was honored with the "Innovation Award" from the Wisconsin Asphalt Pavement Association for design of HMA mix using glass aggregates produced from paper mill sludge. He also conducted a study on porous asphalt pavements for the Wisconsin Asphalt Pavement Association, and has investigated ways to include tire crumb rubber into HMA mixes for a local county highway department.

Joe Eichsteadt, Design Engineer, City of Wisconsin Rapids supervises and administers public works projects including street construction, utility projects, waste water & storm water utility, and solid waste disposal programs. With 10 years of experience in the Civil Engineering field, Joe began working for the City of Wisconsin Rapids in 2008 during the early stages of the municipal storm water permit. Joe was tasked as the contact person for all storm water related questions, be it land-disturbing construction activities, post construction planning and permitting, or storm utility inquiries. He continues to play an instrumental role in the implementation and administration of the storm water management program to comply with the municipal permit. In addition, Joe has helped implement the City's storm water utility from its creation to its day-to-day management.

Kent Fish, Structural Engineer/Vice President, General Engineering Company has over 20 years of experience in the engineering field and over 29 years of experience in the construction industry. He earned a Bachelor's of Science in Civil Engineering from the University of Wisconsin – Platteville and obtained a Master's of Science in Structural Engineering from Iowa State University. Kent's principal engineering expertise is in dam design, structural engineering, and commercial building design. His projects have included dam design, structural design, commercial building design, water and wastewater treatment facilities, street improvements, surveying, litigation (expert witness), building inspection, and construction management. His work experiences have always been surrounded by a team-based culture. He understands the important values that coincide with team-based culture such as: effective communication, involved planning, organization, and preparation.

Bob Givens, Lead Engineer and Program Manager, Omnni & Associates is a Project Manager responsible for project administration and overall project delivery and coordination of OMNNI staff and resources. Bob's technical focus is on site development and storm water management and he has extensive experience using the latest hydrologic and hydraulic modeling techniques. Bob routinely incorporates sustainable features into his site designs including bioswales, biofilters, recycled pavements, porous pavements, and wetland habitats. He is a Professional Hydrologist and works with hydrologic and hydraulic models on a daily basis. Bob has written and presented on many stormwater topics and provides expert witness testimony on stormwater issues.

Ben Jordan, Program Director, University of Wisconsin College of Engineering is a Program Director at the University of Wisconsin – Madison Department of Engineering Professional Development (EPD) where he develops continuing education courses for civil engineers and public works professionals. He is also affiliated with the Wisconsin Transportation Information Center, providing training and technical assistance to county highway departments, town road departments and city and village public works departments in Wisconsin. Mr. Jordan has over twenty-five years of experience in civil engineering and public works. Before he joined EPD, he served as Director of Public Works and Village Engineer in Park Forest, Illinois. He has also worked for the Illinois Department of Transportation in design engineering, construction management and materials engineering for highway construction and rehabilitation projects. He earned a Bachelor of Science Degree in Civil Engineering from the University of Illinois at Urbana - Champaign and is a Licensed Professional Engineer in the State of Illinois.

Meg Kelly, Projects Manager at Biodiversity Project serves as the Rock River Stormwater Group's (RRSG) education coordinator. She is an experienced project manager, land use planner and resource conservationist. In her role with the RRSG Meg implements targeted education and outreach campaigns aimed at changing behaviors of individuals and businesses to reduce stormwater pollution.

Perry Lindquist, Land Resources manager, Waukesha County Department of Land Use has served the past 13 years as Manager of the Waukesha County Land Resources Division, which administers county storm water management, recycling, and land conservation programs. He has a Bachelors degree from UW-Stevens Point in Watershed Management, Urban Planning and Soil Science. Prior to Waukesha County, he served 16 years as head of the Land Conservation Department for Washington County. Perry authored the storm water ordinances and led enforcement efforts in both counties. Two years ago he authored a model Storm Water BMP Maintenance ordinance and has presented on the topic in several regional storm water workshops.

David Murphy, Director DPW, City of Grafton is a Civil Engineer serving as the Director of Public Works for the Village of Grafton, a position he's held since 2003. He received an award for Outstanding Engineer in Government from the Wisconsin Society of Professional Engineers, and belongs to many professional societies and associations, serving as the chair of the Engineering and Technical Committee for the American Public Works Association.

Moe Norby, Technical Support Manager, Polk County Highway Department has been Technical Support Manager for the Polk County Highway Department since 2006. From 2001 to 2005, he was a heavy equipment operator for Polk County and earlier, for the city of Woodbury, MN. For twelve years he was the waste water collection system manager for Thousand Oaks, California. Early in his career he served in the Navy Seabees.

Corliss Tischer, Code Enforcement Specialist, City of New Berlin has been managing, inspecting, and enforcing the City's zoning codes, including Erosion Control and Post-construction storm water management inspection for the last 5 years. Prior to code enforcement, Corliss worked for the New Berlin Police Department as the Public Safety Coordinator for 25 years.

Scott Weber, Street/Forestry Supervisor, Village of Hanover Park IL has been employed by the Village of Hanover Park for the last 21 years as the Street Division Supervisor. He joins us to discuss his experience managing road salt applications that minimize environmental impact. In addition to his Supervisor duties, he has been active in Emergency response within his county as well as the State of Illinois.

Pete Wood, Water Resources Engineer, WDNR has worked for WDNR in the Southeast Regions since 1991. His responsibilities currently include municipal and construction site storm water discharge regulations and urban storm water grants. Peth helped develop the DNR's Municipal Program Guidance on IDDE which was released in March of 2012.

Joseph Zakovec, Wastewater Superintendent, City of Janesville has been employed by the City's Wastewater Utility for the past 21 years. Joe was hired as an Operator Trainee and worked his way up to a Wisconsin Department of Natural Resources Grade IV Certified Operator. In 1997, he was promoted to Chief Operator and in 2009 was promoted to his current title of Superintendent. He has a Bachelor of Science degree from UW-Stevens Point in Water Resources with an emphasis in Wastewater Treatment.

UWEX

About Wisconsin Water Star

Water Star was created to honor cities, villages, towns and counties that take significant steps to protect surface water and groundwater, such as strengthening storm water controls, ensuring water quality, protecting habitats and encouraging residents to conserve water. Water Star also strives to inspire and guide municipalities in taking new actions.

The program determines how well participating municipalities meet the Water Star standards for water resource protections and designates participants as gold, silver or bronze star communities.

Twenty-Six municipalities are now Water Star Communities: Appleton, Ashland, Bayfield, Beloit, Bristol, Brown Deer, Dane County, Darlington, DeForest, Egg Harbor, Fitchburg, Grafton, Johnson Creek, Manitowoc, Menomonee Falls, Middleton, Monona, Mukwonago, Oconomowoc, Plymouth, River Falls, Stevens Point, Sun Prairie, Waukesha County, Weston and Whitewater.

Learn more about the Wisconsin Water Star Program at http://www.waterstarwisconsin.org.

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Dual-core 2.4GHz CPU or faster with 2GB of RAM (recommended)

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UW-Extension's Regional Natural Resources Program provides the webinar service and technical support for 2012 Municipal Water Resource Management Webinar Series. The program includes a team of Natural Resource Educators located across the state. They provide local and statewide education, training, and technical support for environmental and natural resource issues including Water, Forestry, and Great Lakes Restoration. Learn more at:

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