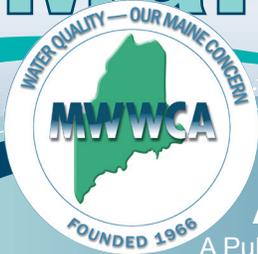


Maine WasteWater NEWS



August 2010 • Summer

A Publication of the Maine WasteWater Control Association

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André's Briefs – The President's Corner



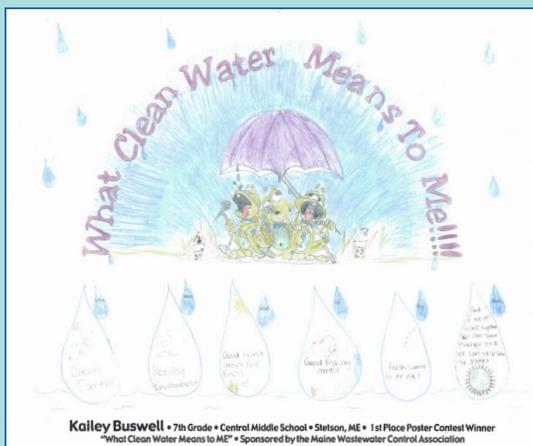
André Brousseau

What a summer it's been! Unlike last year's, this one has turned out to be spectacular. The weather has cooperated with the many construction projects underway. Down in the southern parts of the state, we experienced four weeks of absolutely no precipitation. My kid's summer recreation camp has only been diverted to the local elementary school three times versus 18 times last year due to inclement weather. What a dry spell! This does not help with the facility's plush green grass that we are all used to mowing at least once a week.

Oh well, more time for the operations and maintenance at our facilities. This past summer has been a fairly busy for our executive committee. In early June, Ryan Wadsworth, Chair of the Public Relations Committee and I meet with Gov. Baldacci for the Clean Water Week Poster contest presentation. We changed it up a bit this year with a calendar versus a poster, which allowed the top three to have their posters replicated. All three winners are from the Central Middle School in Corinth, Maine: first place Kailey Buswell; second place Elise Ann Chambers; and third place Tiffany Eldridge. All three winners had their calendars autographed by the Governor and each received a special commemorative pen. Ryan briefly spoke about the contest and I mentioned a little bit about MWWCA. It was a great experience by all. Do not forget to pick up a calendar at the MWWCA booth during the upcoming Fall Convention at the Point Lookout resort in Northport, Maine from September 15 through 17. Lately the Executive Committee has

been busy planning for the convention, with several committees diligently working to make it a memorable one. See enclosed for the schedule of technical sessions and a link to convention registration. I hope to see you all on the coast of Maine.

Yours Truly,
André Brousseau, President
2010



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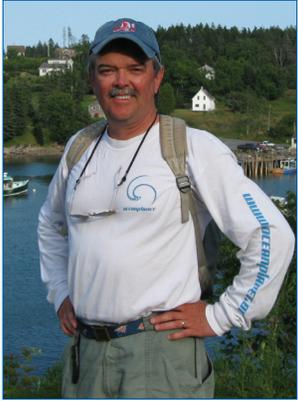
Upcoming Board Meeting Dates:

October 15 – 9:00 A.M.
Monthly Meeting – MMA

November 19 – 9:00 A.M.
Monthly Meeting/Budget
Workshop – MMA

Steve McLaughlin Retires after 34 years at DEP!

Brian Kavanah, Maine DEP



Long term DEP employee Steve McLaughlin retired from DEP on July 30, 2010 after 34 years of dedicated service protecting and improving the waters

of the great State of Maine. Steve's entire career at DEP was focused on working with Maine communities to construct and upgrade wastewater collection and treatment facilities.

Steve started his career at DEP in 1976 directly after graduating from the University of Maine at Orono (UMO) with a degree in Civil Engineering. Steve made his career choice early in life. Steve's father worked at the Bangor POTW as an operator and Steve also worked at the Bangor facility during the summers while he was at UMO. "When I was just a kid in eighth grade I toured the Bangor POTW with my father during an open house prior to its opening in 1968. I was fascinated by the huge pumps and mechanical equipment and wondered who figured all of that out. When I learned that engineers did that I decided that was the career for me".

His hiring at DEP in 1976 seemed to be destined by fate given how it came about. "After graduating from UMO I travelled down to Augusta to the state personnel office to fill out a job application form for any state engineering job that might be available. I had just finished filling out the form when a college classmate of mine burst through the door. He was lost and looking for the DEP office because he had a job interview and was running late. I helped him locate the DEP building across the

river and after his interview he let the DEP staff conducting the interview know that his friend was in the hallway and also looking for a job. I still had my freshly filled out application form in hand and they asked me a few questions. After I informed them of my work history at the Bangor POTW I got the job instead of my friend!"

Steve's first duties at DEP were as an Assistant Civil Engineer with the Construction Grants Program (CGP) that was created as part of the Clean Water Act that was passed just four years earlier. Steve's primary responsibilities were as a project manager overseeing the use of federal and state funds to construct wastewater treatment facilities. At the time there were many new plants under design and Steve's first project was the small treatment plant at Rumford Point.

Steve continued his work in the CGP until 1991 when the program was closed out and replaced by the State Revolving Loan Fund. The initial focus of the CGP was to deal with the gross pollution problems caused by dry weather flows. Wet weather issues were not an initial focus due to a lack of funds. However, by 1991 it was clear that wet weather issues also needed to be addressed and Steve was promoted to a Senior Environmental Engineer and started the Combined Sewer Overflow (CSO) Program. Steve administered the initial state bond that provided funds for CSO planning and over the following 10 year period worked with municipalities to help them develop and implement their CSO abatement plans. Steve's work in the CSO program established Maine as a national leader in addressing CSO issues and has led to the steady reduction in CSOs across the state.

In 2000 Steve was promoted to Environmental Engineering Services Manager responsible for all aspects of the 8 person engineering unit

including the SRF, CSO, Overboard Discharge Grant, and Small Community Grant programs. Steve's primary focus over the last 10 years has been working with municipalities to assist them in finding the financial resources to make a project happen. Steve was often one of the first people a municipality contacted to help line up SRF loans and state grants, or to help coordinate other sources of funding such as RD loans/grant, CDBG grants, or STAG grants. "The great working relationships that I've established with the regulated community, consulting engineers, and municipal officials have made this job very rewarding. The best part of it has been working with these partners to find a way to make a project go and improve water quality. A good example is the Limestone/ Loring project in Aroostook County. Initially I couldn't see a way it was possible, but after many years we were able to put the financing together and are now nearing the end of the project that will eliminate discharges to two small streams."

As a lifetime Mainer, and after 34 years on the job, Steve has seen a lot of changes in the waters of the State. "I remember as a child the sludge bubbling up from the bottom of the Androscoggin and the smell of the Penobscot. I've got great respect and admiration for my coworkers and the work they do. I can think of no better job than to help improve water quality, serve the people of the State of Maine, and enable the people to turn back towards the rivers they once shunned."

Steve has earned a long and happy retirement. He will spend his retirement taking one day at a time, racing sailboats, working on projects around the house, and fishing around the state in some of the beautiful waters he has helped to protect and improve over the last 34 years. Good luck Steve and thanks for a job well done! 🌊

L-A Water Pollution Control Authority Receives Biosolids Certification

The Lewiston-Auburn Water Pollution Control Authority (LAWPCA) recently received word from the National Biosolids Partnership, Alexandria, VA that the Authority has been certified by the Partnership after completing an independent audit of its biosolids programs.

“This certification is both important and gratifying for the Authority” explained Superintendent Clayton “Mac” Richardson. “For more than 25 years the Authority has worked hard to recycle nutrients to plants as we believe nature intended. Our efforts to keep our biosolids free from harmful contaminants, to treat the wastewater solids for pathogen control, and to meet all legal requirements and best management practices have been a source of pride for everyone working for the Authority.”

As the 30th certified program in North America, LAWPCA joins a select group of Cities, Agencies and Companies that have proven their commitment to the highest standards of environmental protection, public participation and continuous improvement.

“There is a great deal of work that needs to be done to create, implement and maintain the systems required by the NBP and its alliance partners, the US Environmental Protection Agency (EPA), the Water Environment Federation (WEF), and the National Association of Clean Water Agencies (NACWA), said Isaiah Lary, LAWPCA pretreatment inspector/quality control technician. “All the work is worth the effort when you realize how it keeps everyone focused on not just doing the best we can, but improving whenever we can.”

LAWPCA produces a class A compost that has been extremely popular with area residents, contractors and landscapers as well as a class B, lime stabilized product that is equally

popular with farmers and utilized on area farms much like manure, albeit with much stricter standards.

Mac Richardson summed the certification up by saying, “Our employees work hard everyday to recycle water so that it is safe to be put in our rivers,

it only make sense that we work equally hard to be sure that the solids we recycle to the land are equally safe. I have to thank Rod Strout, Isaiah Lary, Betty Marchesseault (the EMS team), and all of our employees for their dedication to this critically important work.”

EPA Initiates Rulemaking on Sanitary Sewer Overflows and Blending Policy

In July, the USEPA held sessions across the country on the proposed Sanitary Sewer Overflow (SSO) and Peak Flow policy, and solicited public comment on six questions focused on some of the key components of that policy. The six questions (which had been published in the June 1 Federal Register) are:

1. Should EPA clarify its standard permit conditions for SSO reporting, record keeping and public notification?
2. Should EPA develop a standard permit condition with requirements for capacity, management, operations, and maintenance programs based on asset management principles?
3. What are the costs and benefits of CMOM programs and asset management of sanitary sewers?
4. Should EPA require permit coverage for municipal satellite collection systems?
5. What is the appropriate role of NPDES permits in addressing unauthorized SSOs that are caused by exceptional circumstances?
6. How should EPA address peak flow diversions at POTW treatment plants?
7. How should municipalities balance all of the needs to meet water quality requirements?

The presentation from the USEPA’s sessions is available at <http://www.epa.gov/npdes/pubs/sso-listening%20session-2010.pdf>. The Water Environment Federation (WEF), in its July 16, 2010 issue of “This Week in Washington”, says that “Information obtained during the listening sessions will be reviewed in an effort to finalize policy on SSOs and Peak Flows”, and indicates that this process is intended to revise, replace, and finalize both an SSO policy initially developed in 2001 (and later withdrawn) and a peak flow/bypass/blending policy that was created in 2005 but never finalized. WEF indicates that the proposed rulemaking “is expected to take up to 2 years to complete.”

A finalized SSO and peak flow policy has wide implications for many facilities in Maine, potentially impacting many existing wet weather operations that feature bypass after primary treatment only. The policy may require enhanced reporting of SSO events to the public and expanded asset management requirements. Additional outcomes of the policy may include increased requirements for municipal satellite facilities and the inclusion of more- and stronger- CMOM components in MPDES permits.

MWWCA will continue to monitor this important policy review and rulemaking and provide an update for members as recommendations develop.

ARRA Green Funding Leads to Energy Savings

By James S. Drake, P.E., BCEE (CDM)

The American Recovery and Reinvestment Act (ARRA) required that 10 percent of the total stimulus funding distributed through the state revolving fund programs for water and wastewater facilities be dedicated to “green” infrastructure related projects in each state. This special funding program has made affordable the implementation of renewable energy technologies, alternative energy sources, and energy reduction improvements in wastewater and water facilities. Typically, water and wastewater treatment plants represent the largest functional energy bill across all departments in any community. ARRA funding has generated significant interest in applying these emerging energy strategies and allowed communities to reshape the municipal utility perspective with regard to energy use, putting our industry in the forefront of applying innovative strategies to lowering energy costs.

CDM will make a presentation during the MWPCA Fall Conference that will visit some of the interesting green infrastructure applications to reduce energy and heating costs for wastewater and water treatment facilities in Maine, Massachusetts, and New Hampshire. The presentation will discuss ongoing projects in Lowell (green roofs, photovoltaic, solar heating, and turbo blowers), Lee (rooftop photovoltaic, and energy turbines), and Upper Blackstone WPC (photovoltaic and grease biofuel program)



Lewiston-Auburn UV Water Treatment Facility

in Mass.; and Franklin (green roofs and turbo blowers) and North Conway, N.H. (geothermal and photovoltaic); and Auburn/Lewiston (UV WTP with LEED Certified Building), Maine, along with other New England projects.

Together, these projects represent a new installation base of more than 900 kw of photovoltaic systems saving more than 900,000 kilowatt hours per year. Green roofs in Lowell, Mass. and Franklin, N.H. will help reduce overall stormwater runoff and solar gain from these facilities will help reduce the heating and cooling costs for the facilities. Geothermal applications in North Conway, N.H. will save the Precinct approximately 6,000 gallons of oil per year and the Precinct’s solar applications will save the Precinct approximately 200,000 kilowatt hours per year. The installation of high efficiency turbo blowers to replace less efficient aeration system blowers will save communities 20-30 percent on their aeration energy bills. Lowell (Mass.) is taking this effort a step further with an active integration of the green roofs, passive solar heating, and a program to install rain gardens and stormwater detention basins to establish an Environmental Learning Center. This Center will be a partnership with some of the technology partners that Lowell is applying at the site.

The momentum to look harder at reducing energy costs at water and wastewater facilities is beginning. The

application of a sustainable approach for both the design and construction of buildings and treatment processes is now more of a reality than a concept. Continued state and federal funding of these initiatives will be important to maintain this momentum and help municipal utilities reduce their carbon footprint. ●

Equipment Clearinghouse

It may not be Uncle Henry’s, but MWWCA maintains a place to advertise used equipment for sale, or to post “wanted” items. Visit <http://www.mwwca.org/forsale.htm> to see what’s available. As of press time, LAWPCA was selling a camera, electronic balance, and glassware, and the Kittery Sewer District was advertising actuators, plug valve, blowers, and couplings. Who knows what you’ll find there tomorrow! Click on the link at the bottom of the page to post what you have and don’t want, or want and don’t have. ●

Maine WasteWater NEWS is a quarterly publication of the Maine WasteWater Control Association. (Publication months: Feb, May, Aug, Nov) Opinions expressed in this publication should be addressed to: MWWCA, 60 Community Drive, Augusta, ME 04330.

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North Conway (N.H.) Water Precinct, Solar Panels located at the WWTP

Three Operator Scholarships Awarded

The Personnel Advancement Committee is pleased to announce that it has awarded Operator Scholarships to three applicants. Scott Hesseltnie and Shawn Gifford are both operators at the Lincoln Sanitary District and will attend the Management Candidate School program, coordinated by JETCC, which educates participants in the administrative requirements of wastewater management and prepares them for advancement in the field. Travis Peaslee, Assistant Superintendent of the Lewiston Auburn Water Pollution Control Agency (LAWPCA) and the chair of MWWCA's Conference Committee, has received a scholarship for his ongoing studies toward an ABET degree from the University of Maine (Orono)- a step toward becoming licensed as a Professional Engineer. Darold Wooley, supervisor of the two Lincoln Sanitary District recipients, says "The MWWCA Operator Scholarship is underutilized by the membership. I especially appreciate MWWCA awarding scholarships to two of my operators for the upcoming fall JETCC Management Candidate School. The scholar-

ships make it possible for the Lincoln Sanitary District to send two candidates, and we will a better facility for it. Thanks MWWCA!" Upon learning of the MWWCA scholarship award to Mr. Peaslee, Superintendent Mac Richardson commented, "The Authority feels fortunate to have Travis on Board due to the contribution he has already made in his short time with us. The Board of Directors is especially gratified to see Travis pursuing his Professional Engineer's License through additional engineering education and this help from MWWCA will certainly aid in that effort." The recipients need to receive a grade of "C" or better in their respective courses.

All three recipients will be honored during the Business Luncheon at the MWWCA Fall Convention in Northport, ME. For more information on the Operator Scholarship program, please go to: <http://www.mwwca.org/scholarship.htm> or contact Aubrey Strause at astrause@tataandhoward.com. Deadline for the next round of scholarships will be Friday, September 16: stop by the MWWCA booth at the Fall Convention to complete an application!

JETCC Sponsors Basic Wastewater Class

JETCC will be offering a course in basic wastewater treatment that begins on September 30, 2010 and will be held at the Greater Augusta Utility District. This six-week course provides thorough instruction in how to safely and effectively operate and maintain a wastewater treatment plant, and is an excellent means of preparing for the Maine Wastewater Operator 1 and 2 exam. Through a combination of classroom presentations and tours of the treatment facilities, a wide variety of topics will be covered, including the reasons why waste must be treated, the roles and responsibilities of a treatment plant operator, the use of safe practices and procedures, and the equipment and processes used in wastewater facilities. Deadline for registration is September 23. Visit <http://www.mwwca.org/basicww2010.pdf> to view the full course brochure.

CWSRF Draft 2010 Intended Use Plan Released

On Friday, July 31, 2010, the Maine Department of Environmental Protection released the Draft 2010 Intended Use Plan for 2010 Clean Water State Revolving Fund (CWSRF) funding. Loan principal forgiveness is being offered in the 2010 fiscal year for the first time, per federal law. The need to allocate principal forgiveness in a fair manner led to the Department developing a new ranking methodology that was applied to applicant projects. Fifty percent of the available principal forgiveness for 2010 was made available for those applicants in the top 50% of the ranking that have economic hardship. The remaining fifty percent of available principal forgiveness was used to provide an incentive to encourage comprehensive energy audits (\$20,000 each) to

identify energy efficiency projects, and to implement asset management plans (5% of the total principal borrowed) that include repair and replacement reserve accounts. Recipients of the asset management principal forgiveness must agree to set aside 2% of their total yearly operation and maintenance budget in a reserve account each year for five years.

The CWSRF program received requests for 41 different projects from a number of utilities, districts, and municipalities around the State. The highest ranked project was the Town of Machias' Peak Flow Upgrade Project, with a total project cost of \$5 million. The Limestone Water and Sewer District, the City of Calais, and the Town of Saint Agatha received the most substantial

hardship principal forgiveness for their submitted projects. Many applicant projects were related to CSO abatement, including multiple sewer separation projects. The Draft 2010 IUP includes a total of \$420,000 in energy audit principal forgiveness.

Applicants were requested to complete an Agreement indicating both their intent to apply for the offered CWSRF funds and to agree to undertake certain actions in order to receive the energy audit and/or asset management principal forgiveness components of the IUP. The deadline for both Applicant Agreements and public comments on the Draft 2010 IUP was August 13, 2010; a summary of responses was not available as of press time.

Maine Wastewater Control Association
Fall 2010 Conference: Thursday, September 16 Sessions
September 15-17, 2010
Point Lookout; Northport, ME

	MARSHALL POINT	SEAL HARBOR	GRINDELL POINT
7:00 to 8:00	<i>Registration and Breakfast</i>		
8:00 to 9:00	SESSION A "Vegetation Management and Control" <u>Speakers:</u> Gary Fish (Maine BPC) and Rod Lemin (CPS-Timberland)	SESSION B "Being Green" and "ARRA-Qualified Alternative Energy Projects" <u>Speakers:</u> Bill Hewitt (Pierce Atwood) and Jim Drake (CDM) <i>Drinking Water Credit Approval</i>	SESSION C "Contract Lab Management and QA/QC" <u>Speaker:</u> Matt Sica (DHHS) <i>Drinking Water Credit Approval</i>
9:00 to 9:30	<i>Break/Vendor Time</i>		
9:30 - 10:30	SESSION D "Lab Analytics: GGA testing; seeding; BOD/CBOD/COD" <u>Speaker:</u> George Brewer (Katahdin Analytical)	SESSION E "Sedimentation Theory and Sludge Dewatering" <u>Speaker:</u> Bart Booz (Wright Pierce)	SESSION F "Microconstituents" <u>Speaker:</u> Mike Curtis (Fuss & O'Neill)
10:30 - 11:00	<i>Break/Vendor Time</i>		
11:00 - 12:00	SESSION G "Lagoon Management" <u>Speaker:</u> Jim Fitch (Woodard & Curran)	SESSION H "Pump Clogging: A Case Study" <u>Speaker:</u> Dan Bisson (CDM)	SESSION I "WET Testing" <u>Speaker:</u> Andy Wendel (Clearwater Labs)
12:00 - 1:30	LUNCH/BUSINESS MEETING <i>KEYNOTE: Mike Curtis (Fuss & O'Neill)</i>		
1:30 - 2:00	VENDOR TIME/DESSERT		
2:00 - 3:00	SESSION J "Technical Writing: Pretreatment Agreements and Beyond" <u>Speaker:</u> Jim Crowley (MEDEP)	SESSION K "O&M Training and Diagnostics: Bearings" <u>Speakers:</u> Steve Edgecomb (SKF Bearings) <i>Drinking Water Credit Approval</i>	SESSION L "Trenchless Technologies" <u>Speaker:</u> Matt Timberlake (Ted Berry) <i>Drinking Water Credit Approval</i>
	VENDOR "ROUND TABLE"		
3:00 - 3:30	<i>Break/Vendor Time</i>		
3:30 - 4:30	SESSION M "Emerging Technologies for Meeting Nutrient Limits" <u>Speaker:</u> John Hume (Wright-Pierce)	SESSION N "Sewer and Manhole Rehabilitation" <u>Speaker:</u> Nate Nichols (EJ Prescott)	SESSION O "Process Control" <u>Speaker:</u> Paul Rodriguez (Woodard & Curran)
4:30 to 6:00	MEET AND GREET		
6:30 to 10:30	BIOSOLIDS BOWL		

Maine Wastewater Control Association
Fall 2010 Conference: Friday, September 17 Sessions
September 15-17, 2010
Point Lookout; Northport, ME

	MARSHALL POINT	SEAL HARBOR	GRINDELL POINT
6:00 to 7:00	FUN RUN!!!		
7:00 to 8:00	<i>Registration and Breakfast</i>		
8:00 to 9:00	<p style="text-align: center;">SESSION P</p> <p style="text-align: center;">"Microbiology 101: Start to Finish" <u>Speakers:</u> Peter Sherwood (KSTD)</p> <p style="text-align: center;"><i>Drinking Water Credit Approval</i></p>	<p style="text-align: center;">SESSION Q</p> <p style="text-align: center;">"DEP Topics" <u>Speakers:</u> Brian Kavanah and others</p> <p style="text-align: center;"><i>Drinking Water Credit Approval</i></p>	<p style="text-align: center;">SESSION R</p> <p style="text-align: center;">"MWWCA Executive Committee Round Table" <u>Speakers:</u> MWWCA Executive Committee Members</p>
9:00 to 9:30	<i>Break/Vendor Time</i>		
9:30 - 10:30	<p style="text-align: center;">SESSION S</p> <p style="text-align: center;">"Advanced Industrial Technologies" <u>Speakers:</u> Siemens Water Technologies</p> <p style="text-align: center;"><i>Drinking Water Credit Approval</i></p>	<p style="text-align: center;">SESSION T</p> <p style="text-align: center;">"Implementing a 70E (Arc Flash Safety) Program" <u>Speaker:</u> Michael Gervais</p> <p style="text-align: center;"><i>Drinking Water Credit Approval</i></p>	<p style="text-align: center;">SESSION U</p> <p style="text-align: center;">"Intro to the Legislative Process" <u>Speakers:</u> Andrew Gilmore (ABG), Jeff McNelly (MWUA), Toby McGrath (Verrill Dana)</p> <p style="text-align: center;"><i>Drinking Water Credit Approval</i></p>
10:30 - 11:30	<i>Break/Vendor Time</i>		
11:30 - 12:00	<i>SHUTTLE TO SUMMIT</i>		
12:00 - 1:00	BBQ LUNCH AT SUMMIT/ VENDOR		
1:00 - 1:30	<i>SHUTTLE TO ERICKSON HALL</i>		
1:30	VENDOR RAFFLE: Free MWWCA 2011 Fall Convention registration!		
1:30 - 2:30	<p style="text-align: center;">SESSION V</p> <p style="text-align: center;">"Atlantic Salmon" <u>Speakers:</u> William Taylor (Pierce Atwood) and Kyle Coolidge (Woodard & Curran)</p>	<p style="text-align: center;">SESSION W</p> <p style="text-align: center;">"Exam Prep" <u>Speaker:</u> Jeff McBurnie (New England Organics)</p> <p style="text-align: center;"><i>Drinking Water Credit Approval</i></p>	<p style="text-align: center;">SESSION X</p> <p style="text-align: center;">"CUPSS as an Asset Management Tool" <u>Speaker:</u> Rebecca Reynolds (RCAP)</p> <p style="text-align: center;"><i>Drinking Water Credit Approval</i></p>
2:30 - 4:00	TOUR AT CAMDEN WWTF (TRANSPORTATION ON YOUR OWN)		



Go to the MWWCA website for registration information:
<http://www.mwwca.org/attendeepacket2010.pdf>

Maine WasteWater NEWS

AUGUST 2010 ISSUE

please circulate and share with your colleagues



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