# Huron River Report

Published quarterly by the Huron River Watershed Council

**SUMMER 2014** 



feature story

### Trail Towns of the Huron

#### Part 3 in a series: the City of Ypsilanti

In the previous two issues of the Huron River Report, the communities of Dexter and Flat Rock were profiled on their journeys to becoming destinations on the Huron River for residents and visitors. This installment in the Trail Towns series profiles the City of Ypsilanti.

#### At River Mile 40

The City of Ypsilanti, home to river miles 42 to 39 on the Huron River Water Trail, is a small city that is distinctly urban and diverse, situated 10 miles east of Ann Arbor and 35 miles west of Detroit. Outdoor events are a regional draw featuring the Heritage Festival, Mittenfest, Michigan Summer Beer Festival, Orphan Car Show, and more. Ypsilanti is a historic community being the second city to incorporate in Michigan, and figuring prominently in the 19th and early 20th

century industries of railroad, air, and auto transportation. Many stunning buildings show this rich history through architecture. The Historic Downtown, Depot Town, and Cross

Street make up the lively centers of the city where residents and visitors shop, go to school, live, come to work, eat, gather, and have fun.

This bustling setting contrasts with the serene corridor of green and blue that winds through the city's middle. The vision for Ypsilanti's riverfront came from the landscape architecture firm of the Olmsted Brothers, led by



Annual Orphan Car Show at Riverside Park in Ypsilanti. photo: courtesy of Visit Ypsi Now

Frederick Law Olmsted, Sr. who envisioned the Huron River as a necklace of water with vibrant green spaces dangling from it like gems. Sounds like a perfect setting for an afternoon of paddling!

For paddlers on the Water Trail or continued on page 4

### Ford Lake's Legacy • The mixed history of the impoundment

Throughout the Huron River watershed, and much of Southeast Michigan, the automotive industry shaped the land and waterways. Perhaps nowhere else is as emblematic of this connection as Ford Lake. Located just west of the Washtenaw and Wayne County border and south of I-94, Ford Lake, at 975 acres, is the third-largest

impoundment of the Huron River (after Belleville Lake just downstream of Ford Lake, and Kent Lake in Oakland County). At 30 feet deep, Ford Lake is the deepest of all the impoundments in the watershed (though not the deepest lake). Today, Ford Lake provides recreational use for hundreds of boaters and is the central feature for many residents.

### Powering Henry Ford's Assembly Lines

The Huron River in eastern Washtenaw County has a steeper gradient than in other sections of the watershed and once contained rapids unlike other areas of Southeast Michigan. At the turn of the 20<sup>th</sup>

continued on page 6

INSIDE: UPCOMING EVENTS AND WORKSHOPS HRWC Stewardship Awards The carbon footprint of water processing | Saving Water Saves Energy program update



### Laura's Stream of Consciousness

ur State of the Huron Conference on April 24th was a great success

with 175 attendees, compelling keynote speakers, 3 lively annual volunteer awards, and numerous breakout sessions on a diversity of topics.



Following the morning plenary session, we attended concurrent sessions on a diversity of topics before

lunch. Scott Beckerman from Comerica welcomed the attendees to the locally-sourced lunch, followed by our annual volunteer awards (see next page).



Let me walk you through it: Michigan Economic Center Director's John Austin kicked off the morning with a talk on the Blue Economy: outlining that the economic and environmental health of Michigan lies in leveraging the natural resources of the region.

I then brought it down to the watershed level with this slide compiling all of our data (thanks to Paul, Kris and Ric), and good news it was!



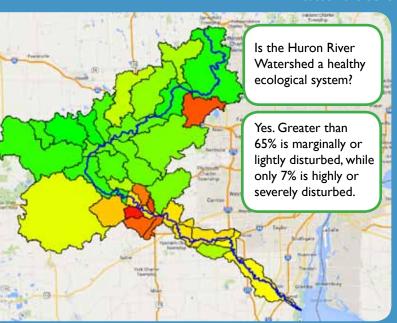
Back in the auditorium, Dave and Amy Freeman awed and inspired us with their three-year trip over 11,000 miles of North America by kayak, dogsled, foot, and canoe.

After that thrilling ride, additional concurrent sessions touched on opportunities with river recreation and economies, threats under climate change, fracking, and

aquatic invasives to strategies to bring more people in to our work. Mary Kerr, President and CEO of Ann Arbor Area Convention and Visitors Bureau, discussed the benefits of the Huron River

> as a recreation and tourist attraction for the area.







Thank you for coming out for a day of learning and sharing. We all got our fill of some good Huron love.

– Laura Rubin



### Stewardship Awards



### Mike Schultz, Partner of the Year

Spend a few moments with Mike Schultz ("Schultzy") and soon you'll know that he's an avid fly-fisherman and ambassador of clean water and improved fish habitat. His fly fishing and guide shop, Schultz Outfitters, is on a banks of the Huron River in Ypsilanti. Schultzy understands that rivers connect us to our past, to each other and to the future.

Schultzy founded the Huron River Single Fly Tournament and the "F3T", the Fly Fishing Film Tour at the Michigan Theatre. Both events help HRWC raise money, membership, and river awareness. Despite his full schedule as a small business owner with at least 100 days a year guiding on the Huron River, Schultzy participates in river clean ups and contributes his expertise to HRWC programs like RiverUp!. Schultzy readily shares the beauty and bounty of the Huron River, as well as the importance of HRWC's work in the watershed.

### The Battersby Family, Volunteers of the Year

The Battersby family - Graham, Alison, Megan and Grace - is very active in HRWC events, contributing over 300 hours since 2010. In 2013 alone, the family's involvement totaled over 100 hours. 2013 family highlights include Grace becoming a trained leader in the Adopt-A-Stream program, Graham participating in large woody debris removal to facilitate paddling in small streams, and the whole family exploring Honey Creek through the Creekwalking program.



Graham also committed his own time and resources to develop his skills through Michigan State University's Lake and Stream Leaders Institute. He attended numerous conferences and seminars about freshwater science and management so that he could apply that knowledge to his volunteer stewardship. The Battersbys are a great example of a family that spends quality time with each other while learning, having fun, and making a difference!



### Dave Wilson, Herb Munzel Lifetime Achievement Award

When Dave retired to Belleville, Michigan in 2003, he continued a rich history of volunteerism and environmental advocacy by becoming a volunteer and member of HRWC.

Dave has been a tireless advocate for the Huron in Belleville and throughout the watershed. Dave became an HRWC board member in 2011. He created and led HRWC's stream-side education program, working with watershed youth. In recent years, he served on the Ypsilanti Township Water Conservation Advisory Commission and the Van Buren Township Environmental Commission. He is also the Program Chairman for the Pittsfield Grange, which offers science and math nights for local elementary schools. Dave notes, "It's a lot nicer now that things aren't nearly as adversarial as they were back in those days. It makes you believe in progress."

— Jason Frenzel, Margaret Smith and Paul Steen



4

recreation enthusiasts on the Borderto-Border Trail, Ypsilanti features amenities and diversions for getting off of the trail and into town:

- Features such as Depot Town's cobblestones and clock landmark provide a gateway into the downtown business district;
- Historic buildings and destinations create a sense of place;
- Downtown way-finding signage, pedestrian-centered streetscapes, and plenty of public parks create a welcoming atmosphere;
- A network of land and water trails, natural features, fishing docks, restaurants, shopping, lodging, banks, and other amenities provide the right mix of services for trail users; and
- Trail-oriented events offer four seasons of outdoor activity with themed walking tours, group paddles, and Southeast Michigan's full-service fly fishing resource Schultz Outfitters in Depot Town.



Opportunities exist for Ypsilanti to build on its reputation as a Trail Town. Possibilities include:

- Providing a shuttle service for paddlers and establish a livery for boat rentals;
- Adding canoe and kayak launches at key locations to access the city centers;
- Installing Huron River Water Trail way-finding signage for visitors arriving by canoe and kayak;
- Establishing a restaurant with waterfront dining on the river; and
- Connecting the Border to Border trail through town from EMU to Ford Lake.

#### A Trail Town on the Cusp

A team of Ypsilanti community and business leaders, with facilitation and support from HRWC, are committed to leveraging local economic development through the Trail Towns process. Specific tasks are:

- Develop trail business ambassadors with existing businesses;
- Identify new business potential;
- Identify projects needing funding and develop grant proposals;
- Track progress of Water Trail development; and
- Implement priority actions of the Automotive Heritage Trail District Master Plan.

#### Peninsular Park Improvements

Renovations are planned for Peninsular Park that will considerably improve the portage around the old dam from the former Peninsular

Paper Company. This site, with funding from RiverUp! donors, will become a safer, well-marked portage for paddlers, as well as prevent additional bank erosion. The existing take-out is a floating platform in disrepair and requires full replacement. This project provides for a new prefabricated floating platform, a mulch path to the downstream launch, and Water Trail markers. Warning signage about the dam and safety

buoys may also be included for the put-in area.



Debbie Locke-Daniel, Executive Director of the Ypsilanti Area Convention and Visitors Bureau, sees great value in positioning the city as a destination for outdoor recreation. "As the City conducts final negotiations for a new Eastside Recreation Center on the Huron River front downtown," states Locke-Daniel, "a group of stakeholders are looking at how we connect water trail users to the Center and Downtown by providing a landing and way-finding signage for paddlers." She continues, "Recreational tourism is growing all over the United States and bringing more new business and young talent. We are very excited about these initiatives."

— Elizabeth Riggs

continued on next page





### **Automotive Heritage Trail District**

Master Plan

2013.12.05









#### **Automotive Heritage Highlighted**

The section of the river through Ypsilanti provides the opportunity to improve awareness of and access to historical automotive sites and the labor movement associated with the era of auto production. HRWC and SmithGroupJJR facilitated local stakeholders in creation of the master plan for this district over the past six months. The Master Plan documents seven auto heritage, four commercial, and 14 recreational destinations within the limits of the Automotive Heritage Trail District.

Goals include: complete site designs for improved canoe and kayak access; add five interpretive signs to the existing Motor Cities signs located at the Automotive Heritage Museum and Water Street; and augment Trail Towns marketing.

HRWC would like to thank the Austin Memorial Foundation, the Ypsilanti Area Convention and Visitors Bureau, and Eastern Michigan University UAW Local 1976 for support of this project.

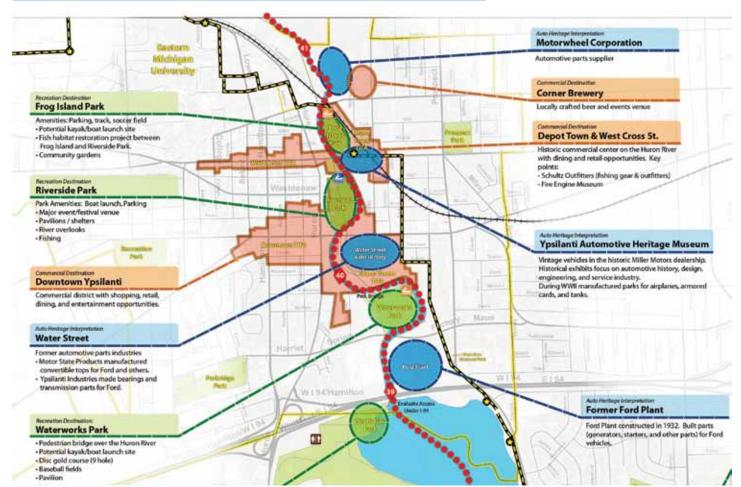
Go to www.riveruphuron.org to view the Master Plan.

#### WHAT IS A TRAIL TOWN?

A Trail Town is a destination along the Huron River Water Trail. Just as hiking trails connect people to the land, Water Trails help people discover rivers, connecting urban and rural communities with the outdoors. Trail users can venture off the trail to enjoy the scenery, services, and heritage of a community with its own character and charm.







4

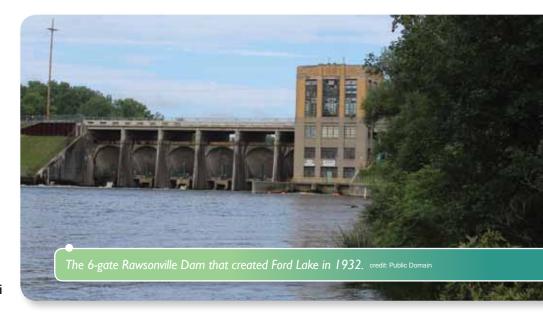
century, as much of the United States was becoming electrified, the energy contained in these types of rapids was coveted for potential conversion to electric energy as rapid industrial innovation was taking place.

By the 1920s, Henry Ford was producing affordable cars using assembly line technology at several plants around Detroit. He began buying real estate along rivers in the region that would provide water for production processes, potential hydropower for operation, and a recreational water feature for his managers and employees around which to locate their homes. The Huron River at Rawsonville in Ypsilanti Township provided a good location for all these features. In 1932, the dam was finally constructed, and the newly created Ford Lake drowned the town of Rawsonville, which residents had to abandon.

#### **The Painted Lake**

The creation of Ford Lake completely changed the river's ecology. Rivers like the Huron naturally collect sediment that erodes off the land or collects in floodplains, and move it downstream. When that sedimentladen water slows down, like in an impoundment, the heavier sediment settles to the lake bottom. Embedded in the sediment that settled in Ford Lake was a wide array of material that washed off farm fields, stream banks, and town and city streets and into the Huron River. One important constituent was phosphorus, a nutrient necessary for plant growth. It binds to soil until it is dissolved in solution where it can be taken up by plant roots. Phosphorus is naturally occuring in soils and is added to fertilizers to enhance plant growth. Phosphorus is also excreted by animals (humans included) and thus is a by-product of waste water treatment.

As communities grew along the river, wastewater discharges increased in volume and storms washed more material off urban and suburban properties. Phosphorus levels in Ford Lake increased dramatically. This



growth in phosphorus levels resulted in a dramatic increase in plant growth, particularly various types of algae. By the 1980s, seasonal algae blooms were an annual nuisance in Ford as well as Belleville Lake. In 1991, an algae bloom was so thick that Ford Lake appeared to be covered in green paint. The stinking mass of algae caused residents to call in a hazardous materials team to investigate the "paint spill." The team contacted the local Ford plant to find out if there had indeed been a spill, but the plant responded that they did not produce that color of paint.

These events led to a state study of phosphorus loading to Ford and Belleville Lakes, and HRWC worked to identify and quantify sources. The state Department of Environmental Quality (DEQ) then developed the first ever nutrient limit policy for the lakes and their watershed - limiting the phosphorus levels in Ford Lake to 50 µg/l and 30 µg/l in Belleville Lake. This policy, established in 1996, set pollutant reduction targets for waste water plants and industrial operations (point sources), as well as for diffuse (non-point) sources from stormwater runoff throughout the municipalities in the watershed.

### A Unique Voluntary Partnership

Following the development of the nutrient target, representatives

from the major point sources and the municipalities in the Ford and Belleville Lakes watershed – the Middle Huron Watershed – met to discuss the implications of the new policy and actions needed to meet the target. Over the course of several years this group met with representatives from the DEQ to negotiate regulatory terms. This resulted in a unique agreement: the Middle Huron Partnership to reduce phosphorus pollution.

In 1999, HRWC brought all the stakeholders and the DEQ together and drafted a cooperative agreement. The point sources (mainly the wastewater treatment plants) agreed to institute significant technological improvements to reduce the phosphorus content in their effluent, while municipalities agreed to enact policies and management practices to reduce phosphorus from stormwater runoff. The partnership resulted in significant effort. HRWC's Water Quality Monitoring Program documents the status and trends of phosphorus loading. Phosphorus reduction plans set out strategies to reduce inputs from sources. The point sources invested millions of dollars in treatment improvements and new technologies, resulting in a 41% reduction from treatment.

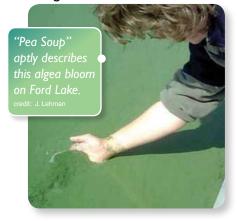
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plant outputs. The municipalities and agencies also invested in a myriad of policies and practices to reduce phosphorus from stormwater runoff. In total, the initiatives enacted through 2011 resulted in reductions in the phosphorus concentration entering Ford Lake to 52.8 µg/l – just above the targeted limit and representing a nearly 50% reduction.

#### **Test Subject**

While the Middle Huron Partnership received state and regional recognition for this great success at source



reduction, Ford and Belleville Lakes still had phosphorus concentrations above targeted thresholds. As of 2006, while the average summer phosphorus concentration in Ford Lake was 35  $\mu$ g/l (below the target), several samples were well above 100  $\mu$ g/l.

A few years prior, Dr. John Lehman, a researcher at the University of Michigan, observed that the lake seemed to exhibit the worst algae blooms when the lake "turned over" in the summer. Turnover is a phenomenon of deeper lakes where the water separates into different layers across a temperature gradient, usually in the summer. When this

happens, the oxygen in the cold bottom layer gets used up.

Lehman's theory was that the deoxygenated water allowed anaerobic bacteria to release phosphorus that was otherwise locked up in sediments. When a strong wind developed, the lake would remix and a mass of phosphorus would enter the upper layer, which, in turn, would stimulate an algae bloom. Dr. Lehman documented that this was in fact occurring. So, while the Middle Huron Partners had significantly reduced new phosphorus inputs, the legacy phosphorus remained in the sediment at the bottom of the lake.

Dr. Lehman coordinated an experiment to test if the lake could avoid temperature separation, and thus reduce the algae blooms. He worked with Ypsilanti Township, who operates the Rawsonville Dam, to selectively open gates at the bottom of the dam to release bottom water and bypass the dam's electricity generating turbines when needed. This action, he hoped, would keep the bottom water mixed and oxygenated and prevent anaerobic bacteria from releasing phosphorus. The experiment occurred over four years, with years of inaction serving as control years. The result was positive. Opening the gates kept the bottom waters oxygenated and minimized algae blooms.

#### The Future of Ford Lake

Ypsilanti Township has since installed a lake buoy to monitor temperature



Tuttle Bridge (similar to the one pictured here) spanned the Huron River at Tuttle Hill Road, which was flooded in the making of Ford Lake. The bridge now lies on its side under 25 feet of water. Credit: Bentley Library

and oxygen levels in the deep part of Ford Lake. When oxygen levels begin to fall, they open the dam gates to remix the bottom water. This lake management, combined with the reduction in phosphorus inputs from upstream, have significantly reduced algae blooms and improved conditions in Ford Lake. Last summer was an exception when, despite the new controls, several significant algae blooms occurred. Yet, boaters return to Ford Lake, visitors frequent the six parks around the lake, and home buyers value lakeside properties. As a river impoundment, Ford Lake will likely never become the "sportsman's paradise" originally envisioned by the Ford family. Phosphorus remains in the sediment - a legacy that will continue to require active management for the foreseeable future. With thoughtful, cooperative management, Ford Lake can be managed as a valuable water resource for the many who reside there or visit each year.

— Ric Lawson



\$20,000 and counting. That's how much we've raised with your

**Support! Books By Chance** donates the proceeds from their internet sales of old and unwanted books, CDs and DVDs to HRWC.We like the slightly esoteric, academic, scholarly and especially university presses. To put your "treasures" to work for HRWC bring your donation to the HRWC office, 9am-5pm weekdays. We will handle the rest. QUESTIONS: Rebecca Foster (734) 769-5123 x 610 or rfoster@hrwc.org.

Founded in 1965, the Huron River Watershed Council (HRWC) is southeast Michigan's oldest environmental organization dedicated to river protection. HRWC works to inspire attitudes, behaviors, and economies to protect, rehabilitate, and sustain the Huron River system.

HRWC coordinates programs and volunteer efforts that include pollution prevention, hands-on river monitoring, wetland and floodplain protection, public outreach and education, and natural resources planning.

Individuals, local businesses and more than 40 communities support HRWC's work through voluntary membership.



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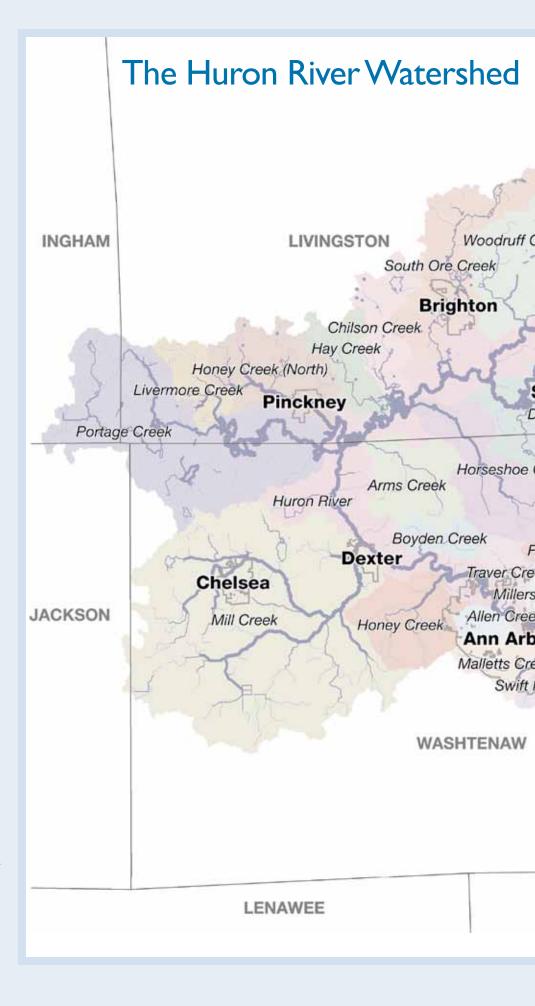


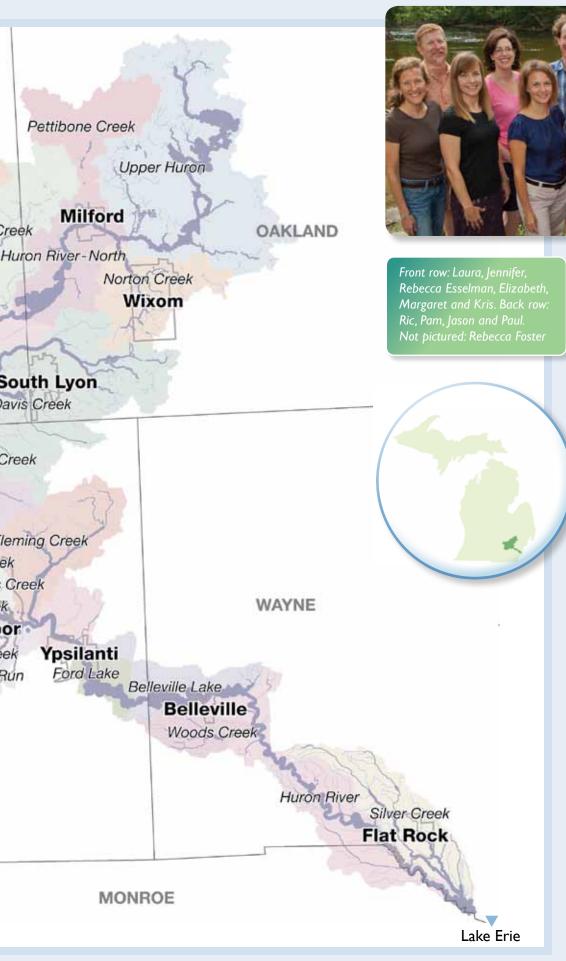
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### HRWC Events and Workshops

JUNE • JULY • AUGUST • 2014

#### **River Scouts Training**

June 10, 6:30 - 8:30 pm

Scout a local stream with a protective eye, looking for potential problems, we'll teach you what to look for!

Details: www.hrwc.org/volunteer; jfrenzel@hrwc.org

#### Stormdrain Art Contest at the Ann Arbor Mayor's Green Fair

Friday, June 13, 6 - 9 pm, Main Street, Downtown Ann Arbor

Come try your hand at decorating one of these curbside connections to the

Details: www.hrwc.org/adoptastormdrain

#### 34th Annual Huron River Day

Sunday, July 13, 12 - 4pm, Gallup Park, Ann Arbor

Celebrate the Huron with HRWC and others. \$5 canoe and kayak rentals, music, food, fishing, and family activities. The fun starts in the morning with the Gallup Gallop run.

Details: www.a2gov.org/hrd

#### **Measure and Map Training**

August 3, 2 - 5 pm

Learn to read the river by characterizing the bed, banks, and other indicators of stream health.

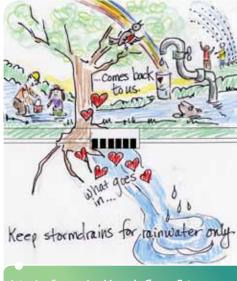
Details: www.hrwc.org/volunteer; jfrenzel@hrwc.org

#### **River Cleanup**

August 16, Time TBD (am)

Near Milford and Flat Rock we'll uncover tons (literally!) of trash.

Details: www.hrwc.org/volunteer; jfrenzel@hrwc.org



Join the fun at the Mayor's Green Fair: design your stormdrain and then bring your ideas to life right on the street!



There is **no wi-fi** on the river but we **promise** you a **better connection....**See **page 12** for more **recreation** events.

FIND MORE EVENTS, VOLUNTEER OPPORTUNITIES AND WORKSHOPS ONLINE WWW.HRWC.ORG/VOLUNTEER • WWW.HRWC.ORG/SUMMER-EVENTS



From Source to Source • The energy and

carbon in our water supply

How much energy is required to provide a person with water each day? A lot. Energy is necessary to move, treat and heat water. Since most energy production emits carbon dioxide (CO2), water use also contributes to global climate change. Decisions related to water use and management can help reduce the amount of energy used throughout the water use cycle. Through water conservation, efficiency, and reuse, residents can lower utility bills, decrease the carbon footprint associated with water use and protect local freshwater resources.

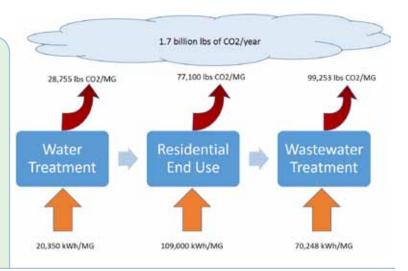
**The Water Use Cycle** 

Few people pay attention to how water arrives to their homes on a daily basis. A vast network of pipes and pumps move water from source to treatment to homes and back. Ann Arbor alone manages 490 miles of water mains, four remote pump stations and two elevated tanks to serve 125,000 people with potable water. Water and wastewater treatment represent 50% of the City's total energy bill.

First, water is pumped from its source to a treatment plant where the water is filtered and disinfected to meet drinking water standards. Then

Estimate of total carbon dioxide released from the pumping, treating and heating of water for residential use in the Huron River watershed.

Orange arrows represent energy inputs during each phase of the water cycle. Red arrows show carbon outputs.



the water is pumped again throughout the community where, on average, 17% is heated for residential use. After water is used, the wastewater is treated before it returns back to the river. Each of the many stages in the water use cycle require energy.

In order to understand energy use and carbon emissions associated with water use in the watershed, HRWC collected water and energy data from 10 drinking water and 17 wastewater treatment utilities in the watershed.

#### The Energy Intensity of Water

The total annual energy used to produce drinking water in the watershed (for the utilities that submitted data) is just over 22 million kilowatt hours (kWh), the equivalent of running 502 central air conditioners year-round. The total annual energy

used to treat wastewater in the watershed is nearly 66 million kWh (equivalent to 1,500 central air conditioners running for a year). Compared to national averages, energy use in the Huron is 10% higher for drinking water

production and 24–43% higher (depending on treatment type) for wastewater treatment. There are many opportunities to improve efficiency within local water utilities.

Energy used for residential water heating is approximately 109,000 kWh per million gallons of water. At the household level, on average, just over 6000 kWh are used annually to heat water. This is similar to running a central air conditioner for 51 days. Energy embedded in residential water exceeds that of both water treatment and wastewater treatment.

#### **The Carbon Footprint of Water**

Knowing Michigan's electric supply mix and the energy intensity of the stages of the water cycle, the carbon intensity can be estimated for the use of publicly supplied and treated water in the watershed. The energy used for water treatment, residential end-use and wastewater treatment add over 205,000 lbs of CO<sub>2</sub> per million gallons. For the water utilities that provided data for this report, more than 8.5 billion gallons of water are produced each year in the watershed. Associated with that water is 1.7 billion lbs of CO2, which is equivalent to the annual emissions from over 162,000 passenger vehicles. It would take over 600,000 acres of forest one year to sequester this amount of carbon!

Water Supply and Conveyance Water Treatment Wastewater Distribution

Wastewater Discharge Wastewater Treatment Collection

Source

A simplified water use cycle. Energy is used in most of the steps of the water cycle. graphic: modified from California Energy Commission, 2005 Integrated Energy Policy Report

continued on page 12



### From Source to Source continued from page 11

### The Role of Water Conservation and Efficiency

By changing water use practices to use less and retrofitting homes with appliances and fixtures that require less water, a household can save money on both energy and water bills, reduce demands on local water resources, reduce demand for polluting energy sources and reduce the resulting greenhouse gas emissions.

Often overlooked when identifying ways to reduce carbon emissions, water conservation and efficiency – at both the utility and individual household level – hold the potential for significant gains in the reduction of a community's contribution to global climate change. Reducing water use, particularly hot water use, is something individuals and families can do to reduce their carbon footprint. To learn more about water saving practices, visit h2oheroes.org.

HRWC would like to thank Masco Corporation for the support of this project.

—Rebecca Esselman

### Special Recreation Events continued from page 10

#### Swim Baseline Lake

Sunday, July 20, 8:30 AM, Baseline Lake, Michigan Sailing Club, Dexter (1-mile and 2-mile swim)

Jump in for our annual summer tradition; leave the chlorine behind, and try a swim in the river channel through Baseline Lake. Back by popular demand, we are including a 2-mile swim, in addition to our traditional 1-mile swim. All swimmers are required to register in advance to swim. After the swim join us for a

continental breakfast of hot coffee, fruit and bagels.

Cost: \$25 for HRWC members, \$35 for non-members, and \$40 for a family. Register at: www.hrwc.org/summer-events



#### Single Fly Tournament

Tournament: Sunday, July 20, 10 AM Schultz Outfitters, 4 E. Cross Street, Ypsilanti After-Glow: Sunday, July 20, 5 PM Schultz Outfitters, 4 E. Cross Street, Ypsilanti

Join us for this year's 4th annual Huron River Single Fly Tournament! Presented by Schultz Out-

fitters and sponsored by Ann Arbor Trout Unlimited. Pick your best fly and fish it till you lose it! Prizes include fly rods, reels, gear, gift certificates



and more. All proceeds benefit the Huron River Watershed Council's RiverUp! and Huron River Water Trail projects. The Single Fly tournament is an annual event that celebrates watershed protection and a special group of folks that spends a great deal of time on the river. Anglers are important stewards of the watershed because they are out in the field observing and monitoring the Huron River and its tributaries throughout the year. HRWC greatly values the anglers for their stewardship because they often serve as our eyes and ears out in the field when we cannot be there. Join us for the After-Glow at Schultz Outfitters to help celebrate the Tournaments participants, as well as, your hand in helping watershed protection!

\$20 for After-Glow

\$50 for Tournament ticket

\$70 for Tournament + After-Glow

\$80 for Tournament +12-month HRWC membership

\$100 for Tournament + After-Glow + 12-month HRWC membership

Register at: www.hrwc.org/summer-events

Information: 734-769-5123 x 612 or recreation@hrwc.org





## Saving Water Saves Energy · Program opens doors and inspires increased water conservation

"I keep a dish pan of water in my sink and use it for soaking and scraping dirty dishes, instead of using running water from the faucet ... I collect water from my shower in a bucket and use it to flush my toilet ... I have replaced my bathroom fixtures with water efficient fixtures that have been certified by WaterSense ..."

Launched in the fall of 2011, the Saving Water Saves Energy Project has heard from hundreds of watershed residents over the last three years on how they save water and the energy used to pump, treat and heat it. At the forefront of these lessons, saving water is easy and inexpensive, especially when you build efficiency into your home's plumbing systems and incorporate water saving habits into daily routines.

### Talking with Watershed Residents

HRWC inserted the Saving Water Saves Energy message broadly into all of its education and outreach programming and featured it in watershed calendars distributed to over 78,000 people in Southeast Michigan. The project also provided residents with over 3,000 native plant seed packets, 1,500 five-minute shower timers and 1,000 toilet leak detection kits. Over five hundred watershed residents "pledged to save" and HRWC staff and volunteers met more than 6,000 people at over 30 public festivals and 12 "save water workshops" in nine communities.

HRWC partnered with Detroit Public Television to produce and air "A Hero Rises" a public service announcement promoting water efficiency measures and EPA's WaterSense labeling program. Students from Ann Arbor Skyline High School added to this digital communications tool by producing three "how-to" videos, targeting the message to their high school peers, and hosting a five-minute shower contest competition.

Saving Water Saves Energy
worked with the City of
Ann Arbor and DTE Energy.
DTE published the project's
water-energy efficiency
tips and information in
EnergySmarts, a green
living magazine that reaches
16,000 residential DTE
customers throughout
Southeast Michigan. Water
Matters, the City of Ann Arbor's
newsletter, which is inserted into the
utility bills of 114,800 customers, also
featured the project.

**Increasing Expertise** 

Saving Water Saves Energy provided HRWC with unique opportunities to increase its expertise on water-energy issues. HRWC collected data from the watershed, getting water and energy use numbers from water utilities, wastewater treatment plants and residents to estimate water-related energy use and carbon emissions. HRWC will share the results, "The Carbon Footprint of Domestic Water Use in the Huron River Watershed," with local communities and other river groups nationally.

### A Committed Foundation Partner

Saving Water Saves Energy would not have been able to raise public awareness on the water-energy nexus without the support of the Masco Corporation Foundation. The Foundation helped shape the project, providing both the financial resources and the technical expertise needed to maximize its impact. Craig Selover, Director of Plumbing Product Technology at Masco Technical Services, and an industry expert in water efficiency standards and products, acted as project consultant, sharing research and connecting HRWC staff with key programs like EPA's WaterSense. Masco's Delta Faucet Company is a two-time WaterSense Manufacturer Partner of the Year for its continued efforts to

Students at
Schoolcraft College
pledge to save
water and energy
at the school's
recent Earth Day
Festival.



support WaterSense labeled products and water efficiency—100 percent of its lavatory faucets and showerheads have met EPA's efficiency and performance criteria.

#### **Influencing Policy**

On the policy front, Saving Water Saves Energy opened doors at both the local and state level. Locally, the project fostered new relationships with many of the watershed's smaller water utilities and wastewater treatment plants. In the fall of 2013, HRWC, along with the Alliance of Water Efficiency (AWE), shared the project and water-efficiency policy lessons with the Michigan Department of Environmental Quality. The meeting led to a presentation for the State's Water Conservation and Water User Work Groups, which identify and promote water conservation and use efficiency practices to preserve the quantity and quality of Michigan's and Great Lakes water resources.

#### **Act Two**

HRWC hopes to further the impact of Saving Water Saves Energy by wrapping the project into its climate resilient communities work. The local water-energy research will help utilities identify where large-scale improvements in energy efficiency can be made and provide a benchmark for improvement. The project's education and outreach campaign is a launching pad and scalable program that can be used to reach even more residents. Stay tuned.

—Pam Labadie



HRWC would like to extend our gratitude to everyone that helped protect the Huron River by giving of their time, talent, in-kind contributions and financial resources.

### Thank you to our generous supporters. February through April, 2014

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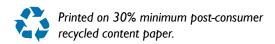




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