



Phase II Municipalities PEP Reporting

On behalf of:

Burton
Davison Twp.
Flint Twp.
Genesee County
Mt. Morris
Vienna Twp.

Clio
Fenton
Flushing
Grand Blanc
Mt Morris Twp.

Davison
Fenton Twp.
Genesee Twp.
Linden
Swartz Creek

***March 1, 2021 – March 1, 2022
Reporting Period***

Prepared by:

***The Genesee County Drain Commissioner SWM
On behalf of Genesee County and contracted Communities***

This report summarizes activities completed for the period from March 1, 2021 to March 1, 2022, by the Genesee County Drain Commissioner's Office and the contracted Phase II Municipalities to meet the requirements of their National Pollutant Discharge Elimination System (NPDES) permit. This report is broken into sections to coincide with the MI Waters website.

- PPP
- **PEP- Public Education Activities**
- IDEP
- General Permit Requirements

Permit Requirements

- **A. (topic 1 in progress report)** Promote public responsibility and stewardship in the applicant's watershed(s).
- **B. (topic 2 in progress report)** Inform and educate the public about the connection of the MS4 to area waterbodies and the potential impacts discharges could have on surface waters of the state.
- **C. (topic 3 in progress report)** Educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4.
- **D. (topic 4 in progress report)** Promote preferred cleaning materials and procedures for car, pavement, and power washing.
- **E. (topic 5 in progress report)** Inform and educate the public on proper application and disposal of pesticides, herbicides, and fertilizers.
- **F. (topic 6 in progress report)** Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may enter in the MS4.
- **G. (topic 7 in progress report)** Identify and promote the availability, location, and requirements of facilities for collection or disposal of household hazardous wastes, travel trailer sanitary wastes, chemicals, and motor vehicle fluids.
- **H. (topic 8 in progress report)** Inform and educate the public on proper septic system care and maintenance, and how to recognize system failure.
- **I. (topic 9 in progress report)** Educate the public on, and promote the benefits of, green infrastructure and Low Impact Development.
- **J.** Promote methods for managing riparian lands to protect water quality.
- **K. (topic 10 in progress report)** Identify and educate commercial, industrial, and institutional entities likely to contribute pollutants to stormwater runoff.

Flint River Watershed Coalition: On behalf of the of the Phase II permittees, the Flint River Watershed Coalition (FRWC) was contracted by the GCDC to provide several services, including:

- *Speaker Materials and Presentations:* PowerPoint presentations on storm water education for adult audiences such as municipal officials, rotary clubs, neighborhood associations, lake associations, etc.
- Hosting *canoe trips* on the Flint River described in the Activities Update.
- *Global Rivers Environmental Education Network (GREEN):* described in the Activities Update. *NOTE although this program is part of Monitoring and Mapping, there are education components to it.*
- *Macroinvertebrate Monitoring Program:* described in the Activities Update. *NOTE although this program is part of Monitoring and Mapping, there are education components to it.*
- The FRWC was involved in the *Storm Drain Stenciling* program described in the Activities Update.

Keeper of the Shiawassee: On behalf of the Permittee, “The Keepers of the Shiawassee” (Keepers) was contracted by the GCDC to provide Benthic monitoring:

- *Macroinvertebrate Monitoring Program:* described in the Activities Update. *NOTE although this program is part of Monitoring and Mapping, there are education components to it.*

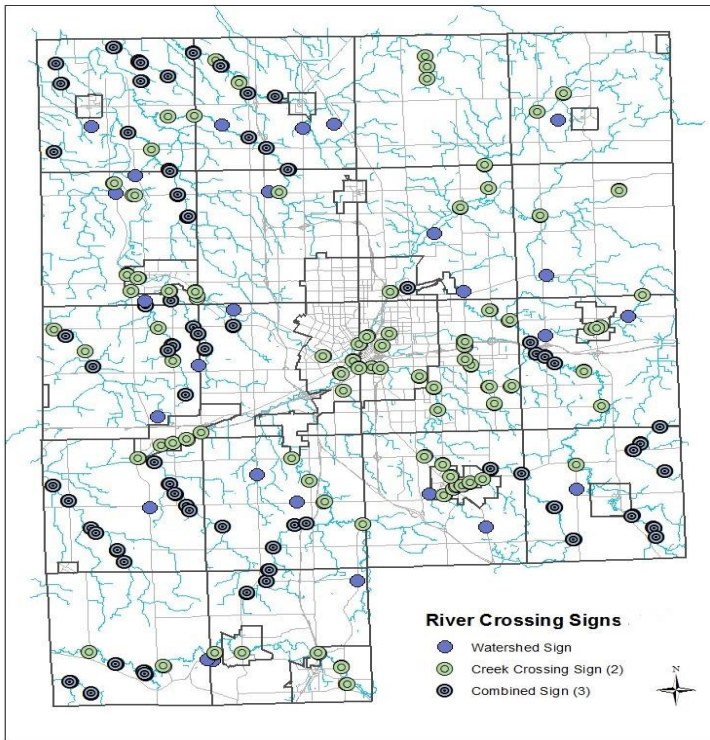
Genesee Conservation District: On behalf of the of the Phase II permittees, the GCD was contracted by the GCDC to provide several services, including:

- The GCD was involved in the *Storm Drain Stenciling* program described in the Activities Update.
- Operate and staff the “Our Water” Information *Display booth* at the County Fair and other events described in the Activities Update.
- The GCD continues to *educate children* on storm water issues using the Enviroscope and craft projects that reinforce storm water messages as described in the Activities Update.
- *Facilitate and staff display booth at public events:* GCD schedules the display booth. Provide staff or training for volunteers.

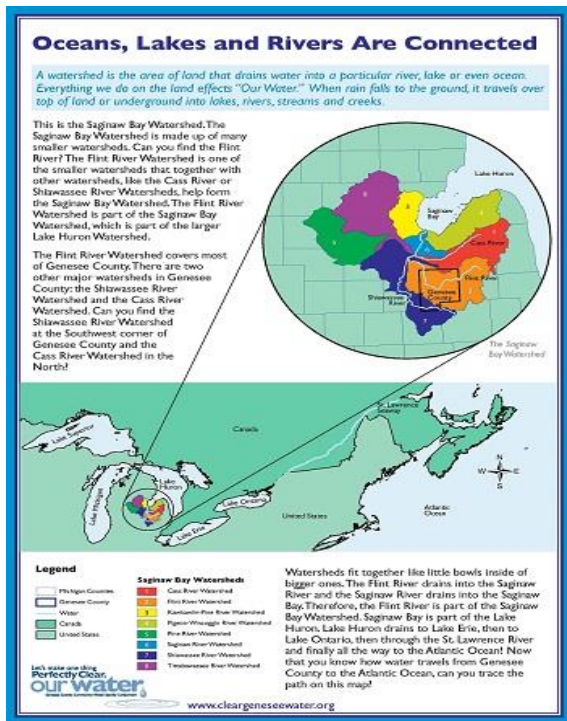
Reporting Period update of implementation of Table 2

Road and Stream Crossings and Watershed Signs (Topics 1 & 2 in progress report)

- Signage installation target was 200 sites with more than 400 signs. There are 216 sites with 409 signs.
- In this reporting period, no additional signs were placed.
- All other signs reviewed. No repairs necessary in this reporting period.
- Signage increases public awareness.
- Private organizations have been placing “adopt a river” signs along the Shiawassee



Watershed Maps: (Topics 1 thru 6 in progress report)



- Series of 8 posters
- For school education
- Distributed hard copy by request. None in this reporting period.
- Available electronically at <http://www.cleargeneseeater.org/teachers.html> none uploaded in this reporting period. all website data is located starting on page 21.
- Below are examples of #1, #2 & #4

How you can help keep our water clean

There are seven simple steps to clean water. How many of these seven simple steps did you do this week?

1. Practice good car care.

Have you ever noticed a rainbow colored puddle on a parking lot or the street? The rainbow colors that you see are caused by petroleum products like oil and gas. Car oil does not mix with water; it sits on top of water. Cars leak oil when they are broken. A single drop of oil can pollute many gallons of water! To keep our water clean, keep cars fixed.



2. Fertilize sparingly & carefully.

Storm drains found in streets and yards go into our lakes and streams. So, when we fertilize our lawns we could also be fertilizing our lakes and streams. Fertilizer is good for our lawn, but it is bad for our water.

3. Clean up after your pet.

Did you know that pet waste has bad bacteria in it that can make animals and humans sick? To keep our water clean, pick up the waste from your pets and put it in the trash.



4. Save water.

When we put too much water on our yards, the extra water carries pollution into storm drains that lead to our rivers and lakes.

5. Choose earth-friendly landscaping.



The chemicals we put on our lawns and gardens to kill weeds can pollute our lakes and rivers if washed into storm drains.

6. Carefully store & dispose of household cleaners, chemicals, & oil.

Did you know that many household cleaners and chemicals can be dangerous to us, our pets, and the environment if they are not thrown away properly? These materials pollute our waterways if washed or dumped into storm drains.



7. Keep pollution out of storm drains.

Storm drains and roadside ditches lead to our lakes and streams. So, any oil, pet waste, leaves or dirty water from washing your car that enters a storm drain will get into our lakes and streams.



The car oil I spill on the parking lot and the napkin I drop in the street are not a lot. When added to everyone else's spills and litter, it adds up to create a big problem!

Remember, storm drains lead to our lakes and rivers!

Let's make one thing Perfectly Clear.
our water.

www.cleargeneseewater.org

In What Sub-Watershed Is Your School Located?



This map shows your school. Can you find it? Are there any nearby rivers, streams or creeks?

In what sub-watershed is your school located?

As townships, towns and cities grow, more roads and parking lots have to be built. However, when it rains or snows, pavement does not soak up water. Do you see any paved parking lots or roads outside your school?

Unfortunately, as clean rain or snow melt (also called storm water) flows over pavement or the ground, it picks up and carries with it pollution like dirt, litter, oil, leaves and animal waste into storm drains. Where does storm water go after it flows into a storm drain?

The storm water that enters storm drains flows directly to our lakes, rivers and streams, carrying all the pollution it has picked up along the way. Common pollutants that wash into our lakes, rivers and streams in storm water include:

- Car fluids such as motor oil or gas
- Chemicals used to kill weeds or fertilizers to grow lawns and gardens
- Pet wastes
- Litter
- Soil from bare ground where vegetation has been removed or killed

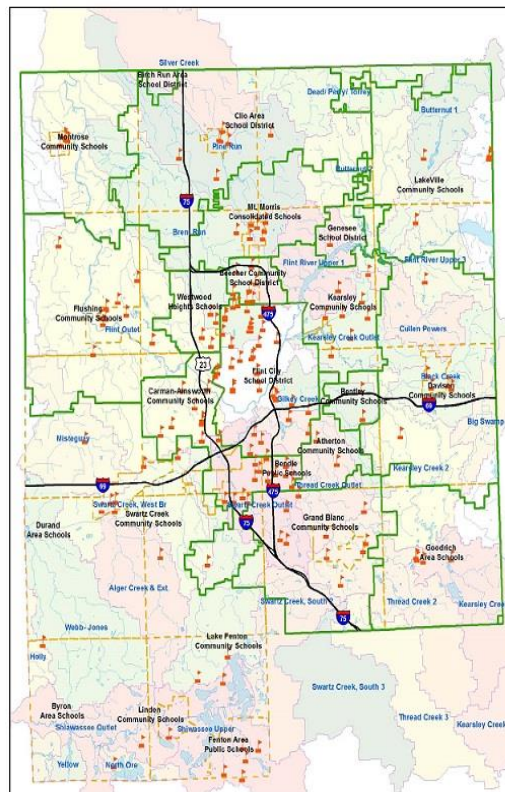
When polluted storm water enters our lakes and rivers, it can cause many problems:

- The plants and animals that live nearby may become sick.
- The humans who drink the water or use it for swimming may become sick.
- The humans who live next to water may notice a bad odor or excessive growth of algae.
- The humans or animals that eat the fish from that polluted water might get sick.

Let's make one thing Perfectly Clear.
our water.

This is why we need to work together and follow the seven simple steps to keep our water clean!

www.cleargeneseewater.org



Benthic Monitoring Program (Topics 1 & 2 in progress report)

- Bi annual testing is performed by volunteers.
- FRWC provides coordination and training
- Testing is done at 30 sites throughout the Flint Water Shed (16 within Genesee County)
- 2 sites were added for the Shiawassee River located within Genesee County and are done by Keepers of the Shiawassee. Data collected will be used with other information to provide an assessment of water quality.
- Project GREEN also introduces Benthic Monitoring to the students.
- Detailed information on sites tested and surveyed are in attachement named 2021-2022 effect.

FLINT RIVER WATERSHED COALITION

Water Quality Monitoring season is here!

Water Monitoring will run from Friday October 8th to Friday October 22nd

Want to monitor with us this season?
Contact Jaime Welch at
iwelch@flinriver.org

Flint River Watershed Coalition
October 6, 2021 · 🌐

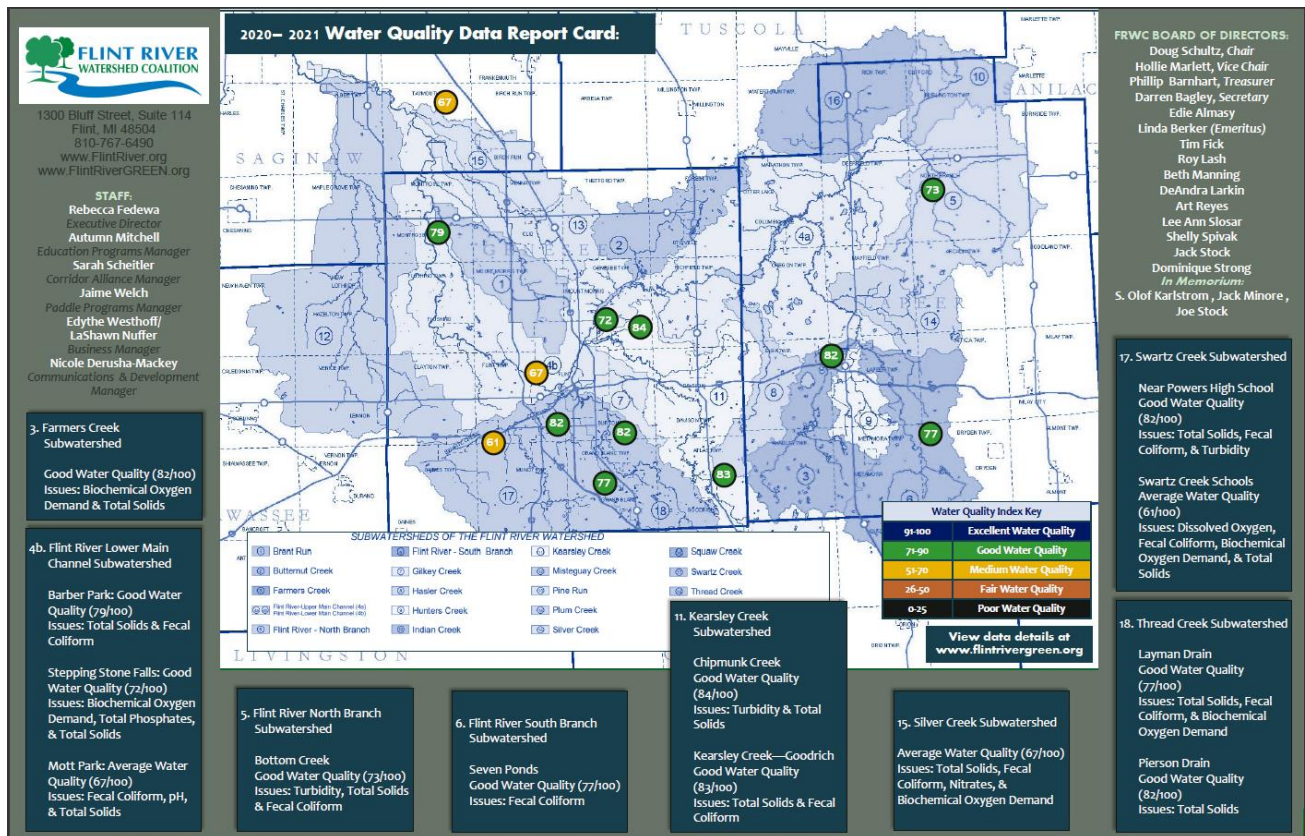
Due to rain and high water, we have pushed our monitoring season back to start this Friday, 10/8. Come get in the river with us!

7 Likes · 4 Shares

Like Comment Share

Project GREEN Water Quality Monitoring Program (topic 1 thru 7 in progress report)

- Annual testing of the Flint and Shiawassee Rivers by students
- Mentors go into the classrooms and talk about water health, watersheds, how we impact water
- Teachers and mentors take students out to river to do chemical testing on water
- Testing results are compiled and analyzed
- Students got together at a virtual symposium and share results in presentations drawing conclusions to why the results show good or bad results.
- Additional education on www.flintriverGREEN.org See Below for screen shots
- Additional information on the Flint River Watershed Coalition visit www.FlintRiver.org
- Number of Hits on Clear Genesee Water.org for this program. All website data is located starting on page 21





From the Education Programs Manager:

We are thrilled to share many success stories with you in this year's report! Together, we were able to try new ideas and fully pilot all of the robust curricula created in recent years. We are proud of the accomplishments of our participating educators and youth during such a turbulent time in education. I thank the Youth Programs Committee for their dedication in supporting these participants.

In the coming pages you will see youth leading their own communities toward healthier water resources. Guided by their educators, these students chose to take action restoring shorelines, canvassing neighborhoods, and promoting sustainable choices for the protection of a healthy Flint River watershed. We hope you enjoy learning about their hard work and are inspired to take action in your own circles!

For program information or questions, please contact me at amitchell@flintriver.org or 810-767-9491.

Autumn Mitchell
Autumn Mitchell,
Education Programs Manager
Flint River Watershed Coalition

Youth Programs Planning Committee

Darren Bagley
MSU-Extension 4-H

Nicole Ferguson
Genesee County Parks

Tom Hutchings
City of Flint

Tom Jones
Genesee County Drain Commission

Sarah Keenan-Lechel
MI-STEM Network

Lisa Marckini-Polk
Civic Research Services

Alyssa McConkey
Earth Force

Autumn Mitchell
Flint River Watershed Coalition

Michael Pillay
GISD Science/STEM Coordinator

Leyla Sanker
UM-Flint
Discovering PLACE, GLSI

Lee Ann Slosar/Alex Thibeault
General Motors

2021 Flint River Watershed Education Summary:

16 Schools	49 Teachers
10 Community Action Projects	1,323 Students
19 Expert Presenters	16 Mentors

Countless Memories!

"I learned that you need to have patience when working with stuff. Also that when working with others you have more ideas."
-Genesee GREEN After-School Student

"We have all learned so much! So much value for kids and myself!"
-Heather Dixon, 8th Grade Teacher, The New Standard

"What an amazing program. This is very real-world and will have an impact on the Flint River and everyone impacted by it for years to come. More programs need to be offered like this to students in schools."
-Jason Vallimont, Middle School Teacher, Grand Blanc Perry Innovation Center

What is Flint River GREEN?

PLACE-BASED EDUCATION • STREAM TESTING & ANALYSIS
CITIZEN SCIENCE • TEACHER & MENTOR TRAINING
COMMUNITY PARTNERSHIPS • STUDENT-LED ACTION

GREEN (Core)

- ⇒ 6th-12th grade hands-on water chemistry
- ⇒ Flexible educator training
- ⇒ Expert mentors for each classroom
- ⇒ Materials for 10 test kits per 30 students
- ⇒ Professional laboratory analysis support
- ⇒ Access to supporting classroom resources
- ⇒ All participating students invited to attend the Student Summit

GREEN Bridges

- ⇒ All of GREEN Core plus:
- ⇒ Individualized support for 6th-8th grade cross-curricular teacher teams
- ⇒ Additional educator training
- ⇒ 12-week NGSS science curriculum plus teaching resources for other content teachers
- ⇒ Access to benthic sampling supplies and electronic probes
- ⇒ Financial support for youth-led action projects

GREEN After-School

- ⇒ 5th-12th grade water quality STEM program
- ⇒ Similar to GREEN Core and Bridges with focus on high-energy, youth-driven activities
- ⇒ Virtual and in-person educator training opportunities
- ⇒ Site visits from local environmental educators
- ⇒ Water recreation experiences on local bodies of water
- ⇒ Support for a culminating youth-led action project

High school students concerned about water quality in Ann Arbor contact University of Michigan Professor, Dr. Bill Stapp. He creates a new water quality program adopted by many schools.

Project GREEN (Global Rivers Environmental Education Network) was launched, sharing student water quality data from around the world.

Flint Community Schools are the first to take on Project GREEN locally; five teachers and 100 students join.

The Flint River Watershed Coalition becomes a non-profit 501(c)3 organization and begins running Flint River GREEN.

Annual participation surpasses 2,000 students from across the Flint River watershed.

An expansion to GREEN named Flint River GREEN Bridges is formed. It links classrooms to the community and careers through curriculum and sustained teacher training.

Classroom programs are reformatted for an after-school audience forming the GREEN Afterschool program focused on youth-led community stewardship action.

Six schools complete their first set of student action projects following the Bridges curriculum. The GREEN Afterschool program is piloted as a summer series.

1984

1989

1990

1998

2011

2019

2020

2021

School	Number of Students	Number of Classes	Fall 2020 (F), Spring 2021 (S), Both S & F (B) - Bridges teachers identified with an (*)	Teacher	Grade Level/Subject
Armstrong Middle School - Kearsley	82	3	S	Kate Tallmadge	6th -8th Honors
Armstrong Middle School - Kearsley (team teacher)			S	Adrienne Temple	
Atherton Jr./Sr. High School	62	3	S*	Ashley Booker	7th & 8th Science
Davison Middle School	63	2	S	Jody <u>Kosiara</u>	7th Science
Genesee Career Institute	51	3	S	Tracy Groom	11th/12th
Goodrich Middle School	150	5	S	Brandon <u>Kreft</u>	6th Science
Goodrich Middle School (team teacher)			S	Erin Doyle	6th Science
Grand Blanc Perry Innovation Center	65	5	S*	Jason <u>Vallimont</u>	6th-8th Multi-Subject Project Module
Montrose - Kuehn Haven Middle School	80	3	S*	Kelly Sanborn	6th <u>Science</u>
Montrose - Kuehn Haven Middle School (Support Teacher)			S*	Tiara McPhail	6th Science
Mt. Morris Junior High School	115	5	S*	Elisabeth Rawling	8th Science
Mt. Morris Junior High School	110	5	S*	Nick <u>Finateri</u>	7th Science
Powers Catholic High School	75	3	B	Julie Lawrence	HS biology
St. John Vianney	25	1	S	Jason Tower	8th Science
Swartz Creek <u>Hjhg</u> School	15	1	F	Carrie Church	HS aquatic biology
The New Standard Academy	90	6	S	Heather Dixon	7th/8th Science
Westwood Heights - Hamady Jr. High School	80	4	Summer 2021	James Hall	7th/8th Summer School
Westwood Heights - Hamady Jr. High School (support teacher)			Summer 2021	Tammy Wylie	7th/8th Summer School

GREEN Training

GREEN Program Training (3 hours) was held virtually on the Sutori platform.

9 mentors (6 new)

8 teachers (6 new)

A Mentor-Teacher Meetup (2 hours) was held live on Zoom

11 teachers (4 new)

7 mentors (2 new)

Bridges Summer Institute (3 days face to face)

8 teachers (5 new)

Program Training	Scroll Down For Sutori Training Snips	
School	First Name	Last Name
St. John Vianney	Jason	Tower
Perry Innovation Center	Jason	Vallimont
The New Standard Academy	Heather	Dixon
Mt. Morris Middle School	Nicholas	Finateri
Davison Middle School	Jody	Kosiara
Mt. Morris Middle School	Elisabeth	Rawling
Armstrong Middle School	Adrienne	Temple
Davison	Kirk	Hansen
Mentor Organization	First Name	Last Name
MSU Extention	Darren	Bagley
Genesee Conservation District	Anastasia	Williams
Genesee Conservation District	Jess	Carleton
For-Mar Nature Preserve and Arboretum	Rosemary	Thiebaut
Genesee Conservation District	Patrick	Scanlon
Lear	Stewart	Duncan
Lear	Aaliyah	Jeter
GM	Lee Ann	Slosar
FRWC	Autumn	Mitchell

Autumn Mitchell

Present Share

Flint River GREEN Bridges
 Summer Institute Field Course
 June 28 - June 30, 2021
 8AM - 3PM

MONDAY:
 Engaging in Teaching & Learning Outdoors
 Integrating Subjects Through Field Study

TUESDAY:
 Instilling a Sense of Place
 Integrating the Community with your Classroom

WEDNESDAY:
 Meaningful Watershed Education Experiences
 A Deep Dive into the Bridges Curriculum Package

FINAL Training GREEN Logistics 2021

Planning:

IMPORTANT GREEN DATES:
 Spring Testing Window: **April 26th—May 14th**
 Virtual Student Summit: **May 17th—May 27th**

TESTING LOCATIONS: Check w/ Land Owners and Administration

FRWC	Mentors/Partners	Teachers
Dates, Locations, Supplies, Sponsors, Participants	Input, Planning, Coordinate Schedules, Find Mentors	Register for GREEN and PPK, Schedule Blows/Status

Watch on YouTube

Watch this introductory video and use the information within it to answer the checkpoint quizzes below.

While the video often discusses the program logistics under ideal conditions, we understand the very real barriers and limitations you are facing. Feel free to pose questions, discuss any hurdles, or share tips in the comments.

LINK TO SLIDES from the video:
https://docs.google.com/presentation/d/19gIXg0n74PJGnYwW0B7QvHtjLe7B_LHgNDjGUGveAU/edit?usp=sharing

For reference, all of the resources mentioned in the video and throughout this training can be found on the Flint River GREEN website: <http://www.flintrivergreen.org/materials/>

Flint River GREEN Virtual STUDENT SUMMIT

May 17-27, 2021

9 Schools
550 Students



8 Pre-Recorded Expert Breakout Sessions
28 Live Expert Breakout Sessions
18 Student Presentations

Students Surveys:

I feel I better understand how pollutants impact water quality:



I feel the Flint River is healthier than I predicted:



View student posters at <https://bit.ly/2o21greensummit>

Flint River GREEN Bridges

Bridging Classrooms, Curriculum, Careers, and Communities

Funding from the National Oceanic and Atmospheric Administration (NOAA) Great Lakes Bay Watershed Education and Training (B-WET) program supported the creation and delivery of this immersive program. Setbacks from the pandemic delayed progress; however, it was worth the wait as you can see in the seven student-led action projects below:



Chatfield: Invasive removal and native planting



Kuehn-Haven: Native planting and monarch waystation



Hamady: Storm drain stenciling and litter cleanup



Perry Innovation Center: Stakeholder engagement and engineering designs



Mt. Morris: Recycling program creation



Atherton: Community outreach via ArcGIS



Marshall Greene: Community outreach via Google Sites

Pre/post test: Total Score - Extended Response



Average pre- and post-program test scores from students participating in the 2020-2021 Bridges program demonstrated a large magnitude of change.


THANK YOU PRESENTERS, SPONSORS, AND MODERATORS





We offered a week-long teacher training opportunity for five new teachers and three returning teachers during summer 2021 and continue to offer supplemental workshops throughout the school year. We are eager to see what our students accomplish this school year!

"Students look forward to completing this unit every year. They love the opportunities they get to go outside and complete activities that actual scientists do."
—Ashley Booker, 8th Grade Teacher, Atherton Jr. High


On page 9 are the classes that participated live or remotely for 2020-2021. The 2021 symposium was held online through teams. The upcoming 2022 Symposium will also be online through teams.



#GREEN2021

#GREEN2021



FLINT RIVER GREEN STUDENT SUMMIT SCHEDULE - May 17-27, 2021 VIRTUAL!

May 17 –27 Asynchronous Content Available

May 19 –21 Expert Breakout Sessions—Geared for Student Audience

May 25 –26 Student Presentations—Geared for Community Partner Audience

STUDENT PRESENTATION SCHEDULE (CLICK THE TIMES FOR LINKS)			
Day	Time	First Presenter	Second Presenter
TUESDAY, MAY 25th	9:10 AM –9:40 AM	Birch Run: Marshall Greene Middle School Mr. Snellenberger's 6th - 8th Grade Water Quality Class	Mt. Morris Middle School Mrs. Rawling's 8th Grade 2nd Hour
	9:55 AM –10:25 AM	Atherton Junior High School Mrs. Booker's 8th Grade 3rd Hour	Mt. Morris Middle School Mrs. Rawling's 8th Grade 3rd Hour
	11:10 AM –11:40 AM	Montrose: Kuehn-Have Middle School Mrs. Sanborn's 6th Grade 3rd Hour	Mt. Morris Middle School Mrs. Rawling's 8th Grade 4th Hour
	11:55 AM –12:25 PM	Atherton Junior High School Mrs. Booker's 8th Grade 3rd Hour	
1:25 PM –1:55 PM	Kearsley: Armstrong Middle School Mrs. Temple and Mrs. Tallmadge's 6th –8th Grade KATS Students	St. John Vianney School Mr. Tower's 8th Grade	
WEDNESDAY, MAY 26th	8:30 AM –9:00 AM	Grand Blanc—Perry Innovation Center Mr. Vallimont's 6th Grade 1st Hour	Lapeer: The Chatfield School Mrs. Young's 8th Grade
	9:10 AM –9:40 AM	Mt. Morris Middle School Mr. Finster's 7th Grade	
	9:55 AM –10:25 AM	Grand Blanc—Perry Innovation Center Mr. Vallimont's 8th Grade 2nd Hour	Montrose: Kuehn-Have Middle School Mrs. Sanborn's 6th Grade 2nd Hour
	11:55 AM –12:25 PM	Grand Blanc—Perry Innovation Center Mr. Vallimont's 7th Grade 3rd Hour	Montrose: Kuehn-Have Middle School Mrs. Sanborn's 6th Grade 4th Hour
	1:25 PM –1:55 PM	Montrose: Kuehn-Have Middle School Mrs. Sanborn's 6th Grade 5th Hour	Atherton Junior High School Mrs. Booker's 8th Grade 6th Hour

The 2021 Virtual Flint River GREEN Student Summit is generously sponsored by the I-69 Region M-STEM Network. Thank You MISTEM Network

FLINT RIVER GREEN STUDENT SUMMIT SCHEDULE - May 17-27, 2021 VIRTUAL!


May 17 –27 Asynchronous Content Available

May 19 –21 Expert Breakout Sessions—Geared for Student Audience

May 25 –26 Student Presentations—Geared for Community Partner Audience

	LIVE SESSION DATES & TIMES (CLICK ON THE ✓ FOR THE LINKS)										
	Wednesday, May 19th					Thursday, May 20th					Friday, May 21st
	8:30-9:00	9:10-9:40	9:55-10:25	11:10-11:40	11:55-12:25	8:30-9:00	9:10-9:40	9:55-10:25	11:10-11:40	11:55-12:25	1:25-1:55
Please log on 5 minutes early to connect											
Rats in Your Drinking Water	✓		✓							✓	✓
Creature Feature	✓	✓				✓					
Trash Talk					✓						✓
Working for the DNR		✓									✓
Turtles of the Flint River			✓	✓	✓						
Invasive Species				✓	✓						
Water Bug Petting Zoo				✓					✓	✓	
Eco-Gardening							✓	✓			✓
Project F.I.S.H.									✓		
Bike FLINT!										✓	
Water is Life											✓
Recycle: It Begins with YOU						✓	✓	✓			
Asynchronous Content	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

THANK YOU PRESENTERS AND MODERATORS!



Visit www.FlintRiverGreen.org for access to water quality data

Facebook page related to GREEN

facebook

Email or phone

Password

Log In

Fc



Flint River Watershed Coalition

Send message



Flint River Watershed Coalition
Published by Autumn Mitchell · June 29 ·

Here's a glimpse into our summer GREEN Bridges educator training this year - where we coach educators on connecting their community and classrooms through curriculum and career exploration. Their students will study water quality and complete related community action projects in the coming school year!



509
People Reached

36
Engagements

Boost Post

13

4 Shares

Flint River GREEN
Published by Autumn Mitchell · June 29 ·

Day 2 of our Bridges Summer Institute: stakeholders, storm drains, and storms - Oh my! Our kayak trip was rained out, but we were able to still walk along the river to understand more about river remediation and urban impacts - and we even returned safely in time to watch the storm roll in!!



24
People Reached

4
Engagements

Boost Post



Flint River GREEN

Published by Autumn Mitchell · June 8 ·

...

Please take a moment to check out our latest Flint River GREEN Bridges Student Action Project - A PSA at their new Google Site: <https://sites.google.com/birchr.../mgmwaterqualityteam/home>

Birch Run students in Todd Snellenberger's 7th and 8th Grade Water Quality class test the chemistry of the water in Silver Creek at four locations throughout the subwatershed to help with ongoing monitoring and targeted outreach. They are now using the data to raise awareness abo... See More



597 People Reached

36 Engagements

Boost Post

5 Shares



Flint River Watershed Coalition

Published by Autumn Mitchell · May 18 ·

...

The 2021 Flint River GREEN Virtual Student Summit is underway! We're proud of the work that our students have accomplished this year and are excited to celebrate with them! Thank you MISTEM Network for sponsoring the Summit!



568 People Reached

42 Engagements

Boost Post

13

4 Shares

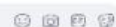
Like

Comment

Share



Comment as Flint River Watershed Coalition





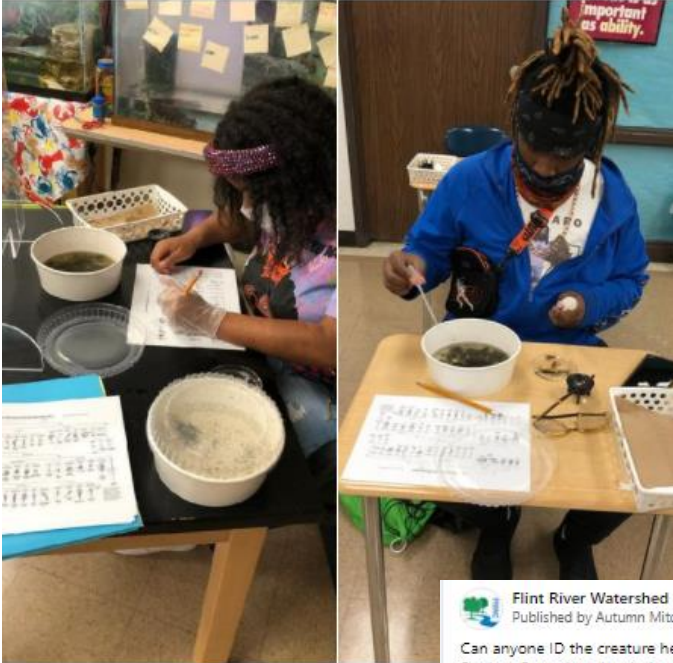
Flint River GREEN

Published by Autumn Mitchell · June 1 · 🌐

...

After being remote for the majority of the year, we're excited to see our Hamady students in the classroom working to determine the health of their local stream by identifying the macroinvertebrates that live there. They will categorize them by pollution sensitivity and calculate a biotic index score.

These students have also worked alongside their teachers to raise and release salmon in the Flint River and are doing work protecting their school yard and community from invasive species!



366
People Reached

24
Engagements

👍 1



Flint River Watershed Coalition is with Matthew Welc.

Published by Autumn Mitchell · May 19 · 🌐

...

Can anyone ID the creature here? Our GREEN students can! More than 250 students joined the Student Summit today during the live expert breakout sessions. We're excited for tomorrow's sessions and for the students to take the stage next week!



1,333
People Reached

183
Engagements

Boost Post

👍❤️ You and 13 others

7 Comments 4 Shares

👍 Like

💬 Comment

🔗 Share



Jason Otto

What is it
Like · Reply · Message · 18w



Author
Flint River Watershed Coalition

Jason Otto hint: it has a "soft shell" and can be found often in and near the Flint River

...

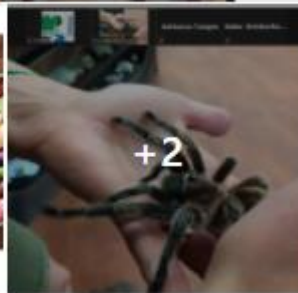


Flint River Watershed Coalition

Published by Autumn Mitchell · May 20 · 🌐

⋮

Another great day of expert sessions at the Flint River GREEN Student Summit! More than 340 students joined us today to meet new creatures and learn about drinking water, gardening, recycling, fishing, bicycling and more! Many thanks to our speakers!!



1,969
People Reached

125
Engagements

Boost Post

You and 15 others

1 Comment 6 Shares

Like

Comment

Share



Larry Petrella

⋮

Bridges has been two years in the making to get us to the point of finally getting our action projects off the ground! Between EEE and Covid, we've had some hurdles to conquer. This makes it all worth it! 🍀🍀🍀



 **Flint River Watershed Coalition**
Published by Autumn Mitchell · May 6 · 🌐

We're in the middle of GREEN testing season and want to thank our 16 schools and mentors for navigating new hurdles this year to make an impact across the watershed! The results are rolling in and we look forward to seeing the students present their findings at our first ever Virtual Student Summit in a few weeks!

#birchrn #montrose #mtmorris #kearsley #hamady #swartzcreek #goodrich #grandblanc #davison #atherton #gci #thenewstandard #chatfield #stjohnvianney #Northbranch #powers #placebasededucation

Autumn Mitchell.

ate two riparian areas at Barber Park. These areas will slow down high amounts of fecal coliform and total ... See More



Flint River Watershed Coalition
Published by Autumn Mitchell · May 25 ·

We're excited to view our Flint River GREEN student presentations today and tomorrow! Check out some of the student posters below!
View them all here: <http://bit.ly/GREENPosters>

The New Standard Academy, Flint

Weather Dixon - Facilitating Teacher

7th & 8th Graders

Site: Our Lady of Guadalupe, Coldwater St
First Year with Green Project

Our Takeaway: *"We are no longer really scared of the Flint River. As we compare our data to other sites, we are noticing it is not nearly as scary as we thought. Our teacher wanted us to go swimming with her this summer. We all said no, at first, but now we think we will join her!"* Jenessa S. 7th grader, TNS

697 People Reached 44 Engagements

12 Likes Comment Share

Comment as Flint River Watershed Coalition

Flint River Watershed Coalition
Published by Autumn Mitchell · February 4 ·

Registration is now open for Flint River GREEN virtual teacher professional development workshops. Teachers will learn about program logistics, the history of the Flint River, geospatial tools, and virtual resources for classroom use.
View offerings at <http://www.flintrivergreen.org/>

507 People Reached 39 Engagements [Boost Post](#)

11 Likes 6 Shares Comment Share

Comment as Flint River Watershed Coalition



Flint River Watershed Coalition
 October 22, 2021 · 🌐

Click the link below to read about our "PIVOTS" to success during the pandemic for our new Water and Wonder after school program option in this month's North American Association for Environmental Education - NAAEE's eePro K-12 Environmental Education blog:

<https://naaee.org/.../pivoooot-flint-partners-persevere...>

#Flint #placebasedlearning #stewardship #youthvoice

👍 3

👍 Like 💬 Comment ➦ Share

See more of Flint River Watershed Coalition on Facebook

Flint River GREEN After-School

Connecting Students to STEM through Water and Wonder

We continued our pilot partnership this year with the Genesee Intermediate School District's 21st Century Bridges to Success program and Genesee County Parks For-Mar Nature Center and Arboretum. Fifty students from Atherton, Mt. Morris, and Genesee elected to stencil storm drains in their school parking lots. These efforts informed peers about how their actions impact the river. The summer program culminated in a celebratory family paddle on Thread Lake in the city of Flint.

This partnership created new opportunities for out-of-school-time youth groups and we are excited to offer the experience to other community programs in the future!

Are you inspired by our youth? Here's what you can do too!

- Pet waste pickup** – Keep extra nutrients and fecal coliform bacteria out of the water supply.
- Plant (native) plants** – Vegetation helps reduce the erosion of sediment into water and can help filter pollutants before they reach a stream.
- Minimize fertilizers on gardens and lawns** – These can still be fertilized sparingly and "caringly!"
- Reduce water use** – Try doing a water audit in your home and challenge your family to improve over time.
- Practice clean car care** – Wash your car in the grass instead of the road or driveway.
- Clear storm drains** – Leaves, grass clippings, and litter travel directly to streams from these catch basins and negatively impact water quality.
- Reduce, Reuse, Recycle, Repurpose, and Refuse!** – Reduce consumption, use reusable containers, learn about your local recycling rules, repurpose items for new projects, and refuse items such as single-use plastics.
- Litter cleanup** – Recycle what you can.

- Reduce thermal pollution by increasing shade and reducing paved surfaces
- Reduce turbidity by preventing soil erosion
- Reduce total solids by reducing road salt, plastic use, and litter
- Reduce nutrients by applying fertilizer sparingly and keeping debris out of drains
- Improve dissolved oxygen by reducing dead plants, animal feces, and sewage
- Support these programs through volunteerism and donations
- Use your vote and your voice to share concerns about local and global waterways
- Reduce fecal coliform by picking up animal waste and maintaining human waste systems
- Improve pH by being cautious of the types of products you use outdoors

FRWC received a SECOND NOAA BWET Grant Award in Feb 2021 and has been expanding the GREEN program during last and this reporting period to include more schools and more teachers and improve upon the existing program. 2/2021 to 8/2021 called BRIDGES. Due to BRIDGES:

- Atherton Student Project: ArcGIS storymap of Microplastics in Michigan.

https://storymaps.arcgis.com/stories/d94191cdaa7045689af671bd80a1506a?fbclid=IwAR0C92vEMWVDW4StF1ZOqKpXogwuVRrfsUrXS-CyqHE5Z3ON_m8Uc

- Kuehn- Haven Middle School in Montrose had students planting Riparian vegetation project at Barber Park next to Kayak ramp.
- Hamady Jr. H.S. did storm drain stenciling in nearby neighborhood
- Grand Blanc Perry innovation center: engineering design challenge- students design Geese deterrents to reduce Fecal Coliform
- Mt Morris Middle School purchased recycle bins for recycling program.

Display Booth for Events (Topics 1 thru 8 in progress report)

- Conservation district takes an education booth to events throughout the County and year Staff/ volunteer engage the public by offering them a giveaway if they answer a question
- It does not matter if the answer is right or wrong, it allows the Staff a chance to impart water education and a pamphlet

The Display Booth for events was completely shut down thru Summer 2021. Starting August 2021 live events were happening again starting with the County Fair. In 2021 the booth went through an update by Tetra Tech in time for the 2021 Fair. We are excited to be doing events with the new look. Image of background below. Note all images are taken within Genesee County. Thanks to Genesee County Parks for their assistance. We had 2 events in 2021

Stormwater Management Public Education Program.

Month	Event	Individuals reached	City
9/16/21& 9/28/21	Davison Farmers Market	83 individuals	Davison, MI
8/23/21- 8/29/21	Genesee County Fair	284 individuals	Mt. Morris, MI

First quarter 2022 have not been reported yet. Those will be in next year’s report.



Our Water Webpage (Topics 1 thru 10 in progress report)

- www.ClearGeneseeWater.org website is being redesigned for content and will go live by May 2022.
- Currently hosted & updated at GCDC-SWM Office, but we will handing this off to third party.
- Content is set around the “Seven Storm Water elements”
- Additional content on www.GCDCSWM.com the Drain Commissioner’s website for permittees. This information will be moved over to Cleargeneseewater.org in the next reporting period.

Month-Year	Hits to Teachers page link to Watershed Maps	Hits to Teachers page link to Project GREEN	Hits to Event page *Household Hazardous Waste	Hits to Household hazardous waste, medications and personal care education page**	Hits to Green infrastructure page	Unique visitors	Total Hits to website
April 2021	0	0	0	0	0	0	0
May 2021	9	9	20	11	8	264	1222
June 2021	4	4	21	12	6	179	1223
July 2021	7	7	35	7	2	153	965
Aug 2021	3	3	8	5	4	155	597
Sept 2021	0	0	13	4	4	106	683
Oct 2021	3	3	6	4	8	148	721
Nov 2021	3	3	4	3	5	137	764
Dec 2021	3	3	10	3	3	171	772
Jan 2022	4	4	6	6	6	187	842
Feb 2022	3	3	18	8	2	190	891
Mar 2022	9	9	14	11	7	148	748
Total	48	48	157	74	55	1838	8428

- All the statistic pages that table information was compiled from are available at the GCDC-SWM office upon request
- Website was moved to a server that perform statistics on it at end of April 2021.
- HHW is on the website in 2 locations. Education and *Events. Events is where the recycling events are advertised.
- **Medications and personal care products were on the same page as HHW education until recently.

Conservation District Youth Education (Topics 1 thru 7 & 9 in progress report)

- Conservation District Staff goes into Schools to do youth education
- Programs can include Envirosapes or other games:
 - Online Games (DiscoverWater.org)
 - Water cycle relay race
 - Filter the Pollution
 - A-maze-ing water
 - Hands on activities- build your own watershed.
 - Water trivia games (who wants to be a millionaire, a watershed game, the environmental council, conservation Style, and environmental jeopardy)
- GCDC-SWM has four “Enviroscape” interactive models that demonstrate how pollutants can reach bodies of water. These can be checked out by groups or teachers.



- Conservation District went thru staff changes but are up and running again for this and other programs.

Breakdown of Conservation District Water Quality Presentations in Fiscal Years 2020-2021 In-person and virtual classes were held.

Month	Event	School aged children reached:	Community Children are from:
5/3/21, 5/19/21	Atherton/Sr High	70 Students 4 Classes	Burton
4/23/21, 4/30/21, 5/19/21	Kuehn Haven Middle	64 Students 3 Classes	Montrose

Reporting is quarterly, January through June 2022 have not been compiled yet. They will be included in the next reporting cycle.

Catch basin Stenciling / Markers Program (Topics 1 & 2 in progress report)

- 2 programs



- FRWC and Conservation District will coordinate groups, train on how and why they stencil. Document the where and how many.
 - Volunteers do the actual stenciling on neighborhood streets and parking lots.
 - Volunteers also distribute door to door hangers with storm water information.
- GCDC-SWM staff places permanent markers on drainage inlets (rear yard and road ditches)
 - Also stencil road inlets where staff had cleaned sumps of sediment and debris

Dates	Markers	Running Total	Community
4/13/11 - 1/19/2016	1400	1400	County Wide
1/19/16 - 3/13/2018	1200	2600	County Wide
3/13/18 - 2/26/2020	650	3250	County Wide
2/26/20 - 3/1/2021	400	4250	County Wide
3/2/21 - 2/15/2022	320	4570	County Wide

15 Storm drain Markers and Stencil equipment has been provided to City of Linden at their request.



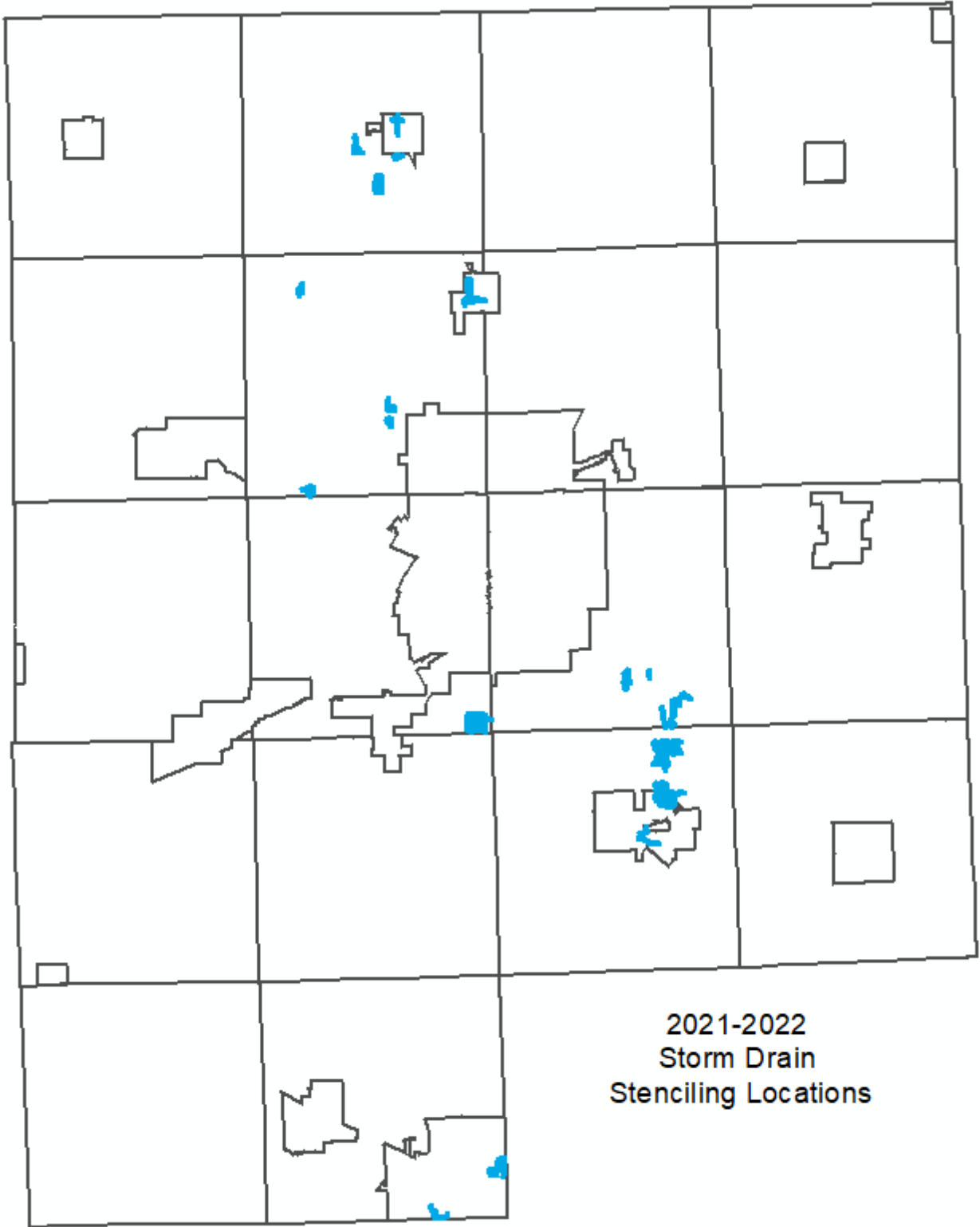
Breakdown of Conservation District Stencil Program in Fiscal Years 2021-2022

Date	Location	Participants	Stencils/ Door hangers
9/01/21	Clio- Curry St, Center St & Darrow St	3	22/47
9/16/21	Mt Morris- Pinegate Dr, Vineyard Dr, Highland Dr	3	12/33
9/17/21	Vienna-Grand Oaks, McCord Dr, Barker Dr, Libbie Dr, Wicker Ct.	3	16/36
9/17/21	Vienna- Rotterdam & Amsterdam	2	12/40
9/28/21	Vienna- Attaberry Dr, Rene Dr, Gernada Dr	4	18/46
9/28/21	Mt. Morris- Parklane St, Oakland Ave	4	14/38
9/29/21	Mt. Morris- Walnut St, Read Ave, Spruce St	2	25/62
9/30/21	Mt. Morris Twp- Nantucket Dr, Flintlock Dr.	3	8/35

Breakdown of FRWC Stencil Program in Fiscal Years 2021-2022

Date	Location	Participants	Stencils/ Door hangers
5/13/2021	Grand Blanc-Kings Point Subd off Belsay, near Perry	18	88 /287
5/13/2021	Burton-Meadows Ave, Maplewood Meadows	15	42 /208
5/13/2021	Grand Blanc-Caterina, Bella Vista Dr, Bella Vista Ct	9	22/ 66
5/13/2021	Grand Blanc-Williamsburg Farms Subd off Belsay between Maple and Hill	25	55 /288
5/13/2021	Fenton-Andover Woods, Parkview, Ridgecrest, Millerway, Carriage Hill, Howard, 1 st , 2 nd , 3 rd	14	60 /195
5/13/2021	Fenton-Maple tree Dr, Plumtree Ln, Peechtree Tr	14	24/ 73
8/5/2021	Genesee Twp-Genesee school parking lots	18	20 /0
8/5/2021	Mt Morris- Eldred St, Birchlane Dr, Coralene Dr	9	13 /0
8/11/2021	Flint Twp- Pickwick Subd west of fenton between Maple and Judd	25	50 /240
9/25/2021	Burton-E ½ of MHC off Bristol near Genesee	5	41 /159
9/29/2021	Burton- Atherton Jr High parking lots	8	5 /0





2021-2022
Storm Drain
Stenciling Locations

Distribute Brochures Promoting the 7 Simple Steps: (Topics 1 thru 7 in progress report)

- An educational brochure was developed to provide information about EPA’s seven mandated elements of storm water education
- 5,000 brochures were printed in November 2006, and 10,000 reprints were made in 2009 and 2013 each. more than 24,000 handed out. We will have to reorder brochures in 2022.
- Brochures are handed out at events. 2021-2022 has had few brochure handouts due to covid and most public events being canceled.
- FRWC also hands out brochures at events.
- Brochures are available to public at municipal buildings (reported on by each permittee)

Speaker Bureau (Topics 1 thru 9 in progress report)

- Modular Power Point presentation was developed and used by FRWC and GCDC-SWM on a multitude of storm water topics
- Water topics can be mixed and matched to customize talk both in content and length
- This program is targeted to talk to residents, groups, associations, and businesses

Breakdown of FRWC Speaker Program in Fiscal Years 2021-2022

Date	Location	Participants
09/28/2021	Genesee Intermediate School District Science Teachers-Zoom	10
05/17/2021	Retired Men’s Fellowship	18
09/11/2021	National Clean Water Collective Annual PEN Pals Forum-Zoom	50
10/14/2021	Sierra Club Nepessing Group-Zoom	20
02/10/2021	UM’s School for Public Health Lecture-Zoom	5
03/01/2021	University of Washington Evans Capstone program Follow up emails and calls	2
03/10/2021	Ferris Wheel-Zoom	25
04/20/2021	Civil-Tea Mott Community College-Zoom	19
08/10/2021	Tabling event at Flint Farmers Market Flint Farmers Market	25
08/20/2021	Sturgeon Release Mott Park Recreation Area	45
08/22/2021- 08/28/2021	Table at Genesee County Fair County Fair Grounds	?
09/06/2021	Good morning Mid- Michigan-ABC12	?

*Includes unreported from previous reporting period

Articles and Publications on PEP topics

- Our partner FRWC often promotes PEP information on various programs, but they have not done any publications this reporting cycle. They do have a presence on their website and facebook.
- Other water efforts by organizations such as a video by the mott foundation
- Periodicall there are articles in the Flint journal or in the local paper, such as the November 4, 2021 article about the new kayak launch

The Flint River: an undiscovered treasure.

The C. S. Mott Foundation produced a stunning video that captures the past, present, and future of our Flint River.



The image shows the front page of the Genesee County View newspaper. The masthead reads "Genesee County VIEW" with the tagline "YOUR COMMUNITY CONNECTION". The date is Thursday, November 4, 2021, and the website is mihomepaper.com. The page features several articles and advertisements.

Main Article: Genesee County Parks installs new kayak launch at Mott Lake
 By BEN GAGNON
 Mott Lake is now more accessible to paddling enthusiasts following the addition of a new kayak launch. In mid-October, Genesee County Parks and Recreation installed a universally accessible kayak launch at Mott Lake. The launch at the lake's Blaegill Boat Launch. Parks staff constructed the infrastructure for the launch during the summer, and final installation was performed by Blaegill Boat Launch. Renowned as a popular fishing spot, the new launch is a popular fishing spot.

Other Articles:
 - Chamber celebrates Detroit Wing Company opening
 - Local bar, restaurant owner remembered as a good friend
 - Chamber holds downtown trick or treating event
 - ELGA donates to breast cancer navigation program
 - Clayton Township voters approve police millage
 - Local entrepreneur announces plan to reopen Pirates Park

Advertisements:
 - Nick Ruffolo: I MADE THE WISE CHOICE!
 - Thomas Appliance: A CENTURY OF SERVICE. THE THOMAS PROMISE. Emergency Repair & Replacement \$89 + Parts & Labor.
 - Food Bank of Eastern Michigan sets \$1 million holiday donation goal.
 - Flushing Community Schools newsletter in today's Genesee County View.
 - Black Friday Sale! \$2,000 GUARANTEED TOWARDS ANY CERTIFIED PRE-OWNED VEHICLE.
 - Todd Wenzel Buick GMC of Davison.

—+—Advertise Household Hazardous Waste Events (Topics 6 in progress report)

- The Household Hazardous Waste Events is financially supported by Genesee County and various Communities (reported on by each permittee)
- PEP program helps distribute information to make public aware of availability and proper disposal of household hazardous waste to keep it out of the environment and landfills.
- Genesee County emails flyers to all users, over 2000 individuals. Most departments post notice where it can be seen by public. Many communities also post flyers where it can be seen. (Reported on by each permittee) GCDC-SWM staff forwarded to all nested school staff.
- Genesee County Planning keeps track of programs and has recycling education.
- 2021-2022 Permit cycle: Household hazardous waste events were on July 27, 2021 from 2PM to 6 PM at Mott Community College.
- Promoted on www.cleargeneseeewater.org All website data is located starting on page 21

Our next Recycle Day event is scheduled for Tuesday, July 27, 2021 from 2PM to 6PM at Mott Community College. 156 Albert Horrigan Drive in Flint. For questions, call our Recycle Hotline at [\(810\) 762-7744](tel:8107627744).

Items Accepted at Recycle Day

- Aerosols
- Automotive Fluids
- Batteries (household/auto)
- Biomedical Sharps (in rigid/sealed container)
- Corrosives (acids/bases)
- Electronics (all kinds)
- Fire Extinguishers
- Fluorescent Bulbs & Tubes
- Mercury
- Oil Based & Latex Paints/Solvents
- Pesticides & Herbicides
- Prescription Medication
- Propane Cylinders (up to 30 lbs. each)
- Reactives & Oxidizers
- Smoke Detectors

Items Not Accepted at Recycle Day

- 55 Gallon Drums of Waste
- Agricultural Tires & Waste
- Ammunition
- Appliances
- Commercial Tires & Waste
- Compressed Gas Cylinders (other than propane)
- Construction Materials
- Explosives & Fireworks
- Garbage & Yard Waste
- Industrial Tires & Waste
- Paper for Shredding
- Radioactive Materials
- Tires
- Weapons

What is Hazardous Waste? Those chemicals and solids that should not go to the land fill, such as non latex paint, batteries, electronics, engine oil and auto fluids, fluorescent bulbs with mercury, medical sharps, pesticide and herbicides, old smoke detectors and other hazardous waste.

Contuninous Events

Hosehold Battery Recycling

The Genesee County Metropolitan Planning Commission (GCMPC) is providing free household battery recycling for employee and public use. Please see the attached picture of the collection containers along with information on acceptable battery types.

Battery recycling collection containers can be found in the following locations:

1. lobby of the Admin Building
2. 3rd floor of the Admin Building near the entrance to the HR Department
3. main floor of the Courthouse near the information desk
4. main floor of McCree near the staircase

If you have any questions about the household battery recycling program or if you notice a collection container is full in the future, please contact Cody Roblyer, Lead Planner, at (810) 766-6570 or [Cody Roblyer](#).



HOUSEHOLD BATTERIES ONLY



Questions?
(810) 762-7744
gcmpc.org/environmental

**NO LEAD
ACID BATTERIES**



**NO ELECTRONIC
WASTE**



**NO Lithium Ion
(LI) Batteries**



Educational Material- Septic Booklet (Topics 3, 7 & 8 in progress report)

- Information to help educate septic system owners on proper maintenance and practices
- Copies have been provided for distribution at the following locations:
 - Genesee County Health Department (Environmental Health – Septic)
 - Interested communities (Not all communities have residents with septic systems.)
 - Realtor's Association
 - They are also available at public events for interested residents. 200 more were provided to Conservation District this year for events.
- The number of parcels Countywide that are not vacant or farmland nor have access to sanitary are small. This makes it hard to evaluate the program.
- The IDEP program has more issues with cross connections than with failed septic systems.
- Since April 1,2021 to February 28,2022 there has been 166 failed systems evaluated and 242 permits issued. The permits that were issued also include new built homes.
- 2020-2021: 2000 brochures were distributed to real estate agents to give out to buyers and sellers of homes with septic systems. They have not requested more this permit cycle. There is no good way to determine exactly how many were given out.
- Brochures are available at the county and in the local communities to be handed out or be picked up by residents. They are provided brochures periodically as needed.

Canoe Trips- Paddles (Topics 1 & 2 in progress report)

- The Flint River has suffered historically from a bad reputation. Through our partnership, the FRWC has several paddles are held on various locations of the Flint River.
- Before the paddle FRWC has water quality education as well as safety on the water education.
- Provides easy access to residents that would not normally get on the water or would drive hours to Canoe/Kayak on a “clean river” up north.
- Most new paddlers are surprised how beautiful and divers the river is.
- Increased use and access observed. = increased stewardship

Breakdown of FRWC Paddle Program in Fiscal Years 2021-2022

2021 EDUCATIONAL CANOE TOURS									
Year	Date	#	Sponsor	Include in Invoice	Event	Submit?	Location	Number of Participants	Participant Municipalities
2020	10/4	1	FRWC	yes	Private OST Paddle	OST paid around \$1700 for this	Thread Lake	21	Fenton, Flint, Mt Morris, Atherton, Burt
2021	6/1	1	FRWC	yes	Private Paddle for school group	Chatfield floated 20 kids at KF	Grand Traverse to Mitson Blvd	20	Lapeer
2021	6/4	1	FRWC	yes	Private Paddle	Board paddle - I think yes	Grand Traverse to Mitson Blvd	11	Burton, Fenton, Flint, Mt. Morris, Holly
2021	6/15	1	FRWC	yes	Public Mindfulness Paddle	Yes	Thread Lake	12	Fenton, Holly, Flint
2021	6/17	1	FRWC	yes	Public Mindfulness Paddle	Yes	Thread Lake	20	Fenton, Flint, Grand Blanc, Holly
2021	6/18	1	FRWC	yes	Crim Family Fun Event	Prob not, we got paid \$1000	Thread Lake	26	Flint, Genesee, Burton, Clio, Mt. Morris, Burt
2021	7/3	1	FRWC	yes	Public Paddle	Yes	Grand Traverse to Mitson Blvd	11	Flint, Fenton, Swartz Creek, Frankenmuth
2021	7/6	1	FRWC	yes	Private Mindfulness Paddle for school group	Hamady School Paddle-yes	Thread Lake	19	Flint, Fenton, Holly
2021	7/10	1	FRWC	yes	Public Mindfulness Paddle	Yes	Grand Traverse to Mitson Blvd	18	Flint, Fenton, Burton, Swartz Creek
2021	7/11	1	FRWC	yes	Public Mindfulness Paddle	Yes	Grand Traverse to Mitson Blvd	25	Flint, Fenton, Holly
2021	7/14	1	FRWC	yes	Private Mindfulness Paddle	Private for Crossover-yes	Grand Traverse to Mitson Blvd	9	Saginaw, Flint
2021	7/19	1	FRWC	yes	Private Paddle	Chamber DNR kids paddle - they paid \$1000	Buell Lake	35	Flint, Fenton, Holly, Saginaw, Swartz Creek
2021	7/27	1	FRWC	yes	Private Mindfulness Paddle	CS Mott paddle - prob not	Thread Lake	11	Flint, Fenton, Grand Blanc, Holly
2021	8/1	1	FRWC	yes	Public Paddle	Yes	Flushing Riverview Park to FTNP	9	Grand Blanc, Flushing, Flint, Fenton, Clarkston
2021	8/2	1	FRWC	yes	Public Mindfulness Paddle	Yes	Thread Lake	14	Flint, Clio, Fenton, Holly, Bay City, Genesee
2021	8/4	1	FRWC	yes	Public Mindfulness Paddle	Yes	Thread Lake	17	Flint, Fenton, Linden, Frankenmuth, Burton
2021	8/7	1	FRWC	yes	Flotilla	We just include	Grand Traverse to Mitson Blvd	153	
2021	8/18	1	FRWC	yes	Public Paddle	Yes (this was a private paddle I turned into a pub	Thread Lake	17	Fenton, Flint, Grand Blanc, Burton
2021	9/1	1	FRWC	yes	Public Paddle	Yes (Monitor thank you paddle, no charge to par	Flushing Riverview Park to FTNP	17	Flushing, Flint, Mt. Morris, Lapeer, Fenton, Genesee
2021	9/18	1	FRWC	yes	Public Mindfulness Paddle	Yes	Grand Traverse to Mitson Blvd	7	Flint, Fenton
2021	9/19	1	FRWC	yes	Public Mindfulness Paddle	Yes	Grand Traverse to Mitson Blvd	12	Flint, Fenton, Flushing
2021	9/30	1	FRWC	yes	Kettering freshmen paddle	No, we are charging Kettering for this	Grand Traverse to Mott Park	25	
		21							

2021 FRWC Paddle Calendar

June

Monday June 7th Millville to Stanley Road 5:30 pm
 Thursday June 10th Mitson to River Road 5:30 pm
 Sunday June 13th Bray Road to VVP (Pedal to Paddle) 9:30 am
 Tuesday June 15th Mindfulness Paddle 5:30, Thread Lake 5:30 pm
 Thursday June 17th Mindfulness Paddle 5:30 pm Thread Lake 3:30 pm
 Tuesday June 22nd Rotary to Saginaw, Lapeer 5:30 pm
 Thursday June 24th iKayak Workshop 4 pm - 8:30 pm
 Friday, June 25th Full Moon Float Grand Traverse to Mitson Blvd 8 pm

July

Saturday July 3rd Grand Traverse to Mitson Blvd (Pedal to Paddle) 9:30 am
 Wednesday July 7th M15 to Irish paddle 5:30 pm
 Saturday July 10th Mindfulness Paddle Kayak Flint 9:30 am
 Sunday July 11th Mindfulness Paddle Kayak Flint 9:30 am
 Thursday July 15th Thread Lake Paddle 5:30 pm
 Saturday July 17th - iKayak Workshop 9 am - 4 pm
 Friday July 23rd Full Moon Float Grand Traverse to Mitson Blvd 8 pm

August

Sunday August 1st Holloway to Irish paddle 9:30 am
 Monday August 2nd Mindfulness Paddle 5:30 pm, Thread Lake
 Wednesday August 4th Mindfulness Paddle 5:30 pm, Thread Lake
 Saturday August 7th, Flotilla
 Friday August 13th iKayak Workshop, 9 am - 4 pm
 Sunday August 15th Irish to Mott Lake 9:30 am

September

Friday September 10th Mindfulness iKayak Workshop 6 pm - 8 pm
 Sunday September 12th Riverview to Flushing Twp Nature Park 9:30 am
 Thursday September 16th, Rotary to Saginaw, Lapeer 5:30 pm
 Saturday September 18th Mindfulness Paddle, Kayak Flint 9:30 am
 Sunday September 19th Mindfulness Paddle Kayak Flint 9:30 am
 Monday September 20th Full Moon Float Grand Traverse to Mitson Blvd 8 pm
 Saturday September 25th Mott Lake Paddle 9:30 am

Present Information on Proper Disposal of Medications and Personal Care Products on Website

- This information used to be available on Water and Waste website, but the site has been changed during the previous reporting period. Now it is available on www.ClearGeneseeWater.org
- The promoted Household Hazardous Waste events specifically list that they accept aerosols, biomedical sharps, and prescription medication as some of the items accepted
- Number of Hits on Clear Genesee Water.org for this program. All website data is located starting on page 21



Properly Dispose of Medications and Personal Care Products

What's the issue?

Medications and Personal Care Products can cause problems if leached into surface waters.

Medications

- Contact your local drug store to see if they will take old medications.
- Periodically Police and Household Hazardous Waste Days will have Medication Collections.
- If neither option above is available to you, the Department of Pharmacy Medication Disposal says: Mix Medicine with bad tasting substance such as kitty litter or coffee grounds. Place in sealed box or container. Dispose in household trash.
- Needles should be placed in plastic container such as detergent bottle before being disposed of.

Personal Care Products

- If products are still safe to use, see if someone you know can use it.
- Landfills currently are the best place to dispose of old makeup and other personal care products.

Do you have household hazardous waste to dispose of?

Genesee County's Michigan State University Extension and the Genesee County Health Department host Household Hazardous Waste Collection Days numerous times each year.

For the next collection date, call MSU Extension (810) 244-8524 or the Genesee County Health Department (810) 257-3603

Acceptable materials: Old household pesticides, herbicides, solvents, paint thinners, aerosol cans, oil-based paint, motor oil, mercury, batteries, corrosives, old prescriptions, old tires with no rims.

Unacceptable materials: Explosive and radioactive materials, medical waste, commercial and industrial wastes and latex paint.

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Pamphlet for Riparian Landowners (Topics 5 thru 7 & 9 in progress report)

- Most of the pamphlets were distributed in past reporting periods.
- Pamphlets are handed out at events.
- Pamphlets are available to public at municipal buildings. (Reported on by each permittee)
- 5000 Pamphlets have been distributed since start of program. All have been distributed. Another 5000 were ordered this permit cycle but have not been used.

Education Workshop Targeted to Restaurant Waste (Topics 7 & 10 in progress report)

- Restaurants have been identified as having high IDEP potential.
- A Brochure will be printed April 2022, and distribution will happen in next reporting cycle. County Health department has agreed to distribute and can get to all restaurants within 6 months. It would target restaurants to educate staff on proper disposal of waste fluids to prevent future illicit discharges.

Education Workshop Targeted to Green Infrastructure Design (Topics 9 in progress report)

- Engineers and developers have been targeted to help them understand how green infrastructure can be effective in their design.
- No workshop has been performed during reporting period. Scheduled for 2022. Once workshop is recorded it can be placed on www.cleargeneseewater.org
- Currently Earth friendly landscaping is available on www.cleargeneseewater.org for residents
- Number of Hits on Clear Genesee Water.org for this program. All website data is located starting on page 21

Let's make one thing
Perfectly Clear.

our water

Genesee County Community Water Quality Consortium



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Choose Earth Friendly Landscaping

Remember, a few simple changes can make a big difference!

What's the issue?

When landscaping your yard you can protect your kids, pets, and the environment from harm. By choosing plants that are native to Michigan and by practicing good lawn-care practices, you can help prevent pollution of our lakes and streams.

Mow high. Make your lawn cheaper and easier to maintain by mowing high (three inches is recommended). Taller grass requires less water, promotes root growth, and shades out weeds.

Use mulch. Place a thick layer of mulch (e.g., four inches) around trees and plants. This helps retain water, reduce weeds, and minimize the need for pesticides.

Go native. Select plants native to Michigan. Native plants are better equipped to tolerate Michigan's climate, require less fertilizing, and are more disease resistant.

Variety is the spice of life. Using a wide variety of plants helps control pests and minimizes the need for pesticides.

Water wisely. Generally, your lawn needs about an inch of water a week. Over-watering lawns results in shallow-rooted plants that are less tolerant of heat and drought,

Buffer. Create buffers of plants between waterways and hard surface areas to help filter out pollutants.

Keep your rainwater where it belongs...on your property.

Utilize gutter water. Direct water from roof drains and gutters to vegetated areas on your property.

Get a rain barrel. Install a rain barrel to collect roof runoff. Use it to slowly soak your landscape or water your flowers. A simple online search through Google or another search engine will bring up information on rain barrels, both purchasing pre-made ones and directions on how to make your own.

Plant a tree. Use trees, shrubs and other deep rooted plants to hold and use water properly on your property.

Mow less. Reduce the amount of lawn by adding berms, and flower, herb, native plant, decorative grass, vegetable and rain gardens.

Plant a Rain Garden. A rain garden is a place landscaped in your yard meant to help capture stormwater runoff and increase water absorption into the soil. A website, called *Rain Gardens of West Michigan*, gives information on the various types of rain gardens and planting information specific Michigan. Website: <http://www.raingardens.org>

Use porous surfaces. Minimize use of concrete or asphalt by substituting gravel, paving stones, turf stones,

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[Helpful Links](#)

[Newsletters](#)

[PowerPoint Presentation](#)

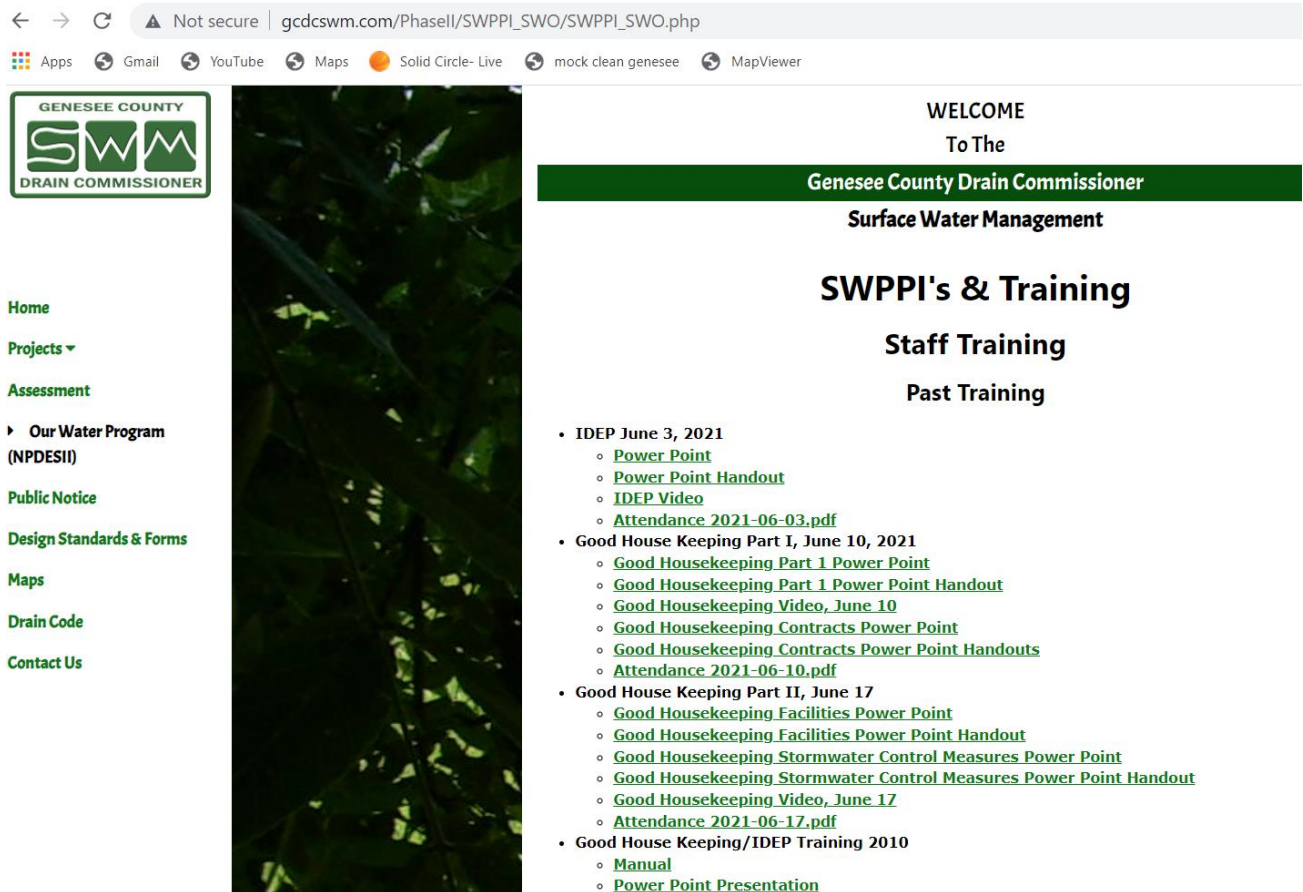
[Reporting](#)

Education Workshop targeted to good housekeeping practices for municipalities (Topics 2 thru 6 & 10 in progress report)

- Provide training information for municipal staff and their contractors
- Topics to be covered:
 - Spill prevention / Spill Control and Response
 - Vehicle and Equipment Maintenance / Washing
 - Material Storage
 - Waste Management
 - Facility Maintenance
 - Landscape and Grounds Maintenance
 - Illicit Discharge Detection
 - Contracts
- Two Zoom trainings were done 06/10/21 & 06/17/21 for Good Housekeeping. See attendance lists for those who watched live.
- Online self-training and videos are available on demand, so permittees may do training on their schedule. (Reported on by each permittee)

Good Housekeeping Training Video (Topics 2 thru 6 & 10 in progress report)

- Training materials are made available to permittees currently through www.GCDCSWM.com website this will be moved to cleargeneseewater.org in the next reporting period.
- Permittees may do training on their schedule (reported on by each permittee)
- Information provided: Power Point Presentation, Good housekeeping Video, IDEP Tip Card
- Information can be accessed by receiving an email link from GCDC-SWM staff. Videos of June 2021 available on website.
- Additional training available on website with links to
 - State Industrial Storm Water Program
 - Standard Operating procedures
- Following permittees have requested link
 - City of Fenton



The screenshot shows a web browser window with the URL gcdcswm.com/Phasell/SWPPI_SWO/SWPPI_SWO.php. The page features the Genesee County SWM Drain Commissioner logo on the left and a navigation menu with links to Home, Projects, Assessment, Our Water Program (NPDESII), Public Notice, Design Standards & Forms, Maps, Drain Code, and Contact Us. The main content area is titled "WELCOME To The Genesee County Drain Commissioner Surface Water Management SWPPI's & Training Staff Training Past Training". Below this title is a list of training materials:

- IDEP June 3, 2021
 - [Power Point](#)
 - [Power Point Handout](#)
 - [IDEP Video](#)
 - [Attendance 2021-06-03.pdf](#)
- Good House Keeping Part I, June 10, 2021
 - [Good Housekeeping Part 1 Power Point](#)
 - [Good Housekeeping Part 1 Power Point Handout](#)
 - [Good Housekeeping Video, June 10](#)
 - [Good Housekeeping Contracts Power Point](#)
 - [Good Housekeeping Contracts Power Point Handouts](#)
 - [Attendance 2021-06-10.pdf](#)
- Good House Keeping Part II, June 17
 - [Good Housekeeping Facilities Power Point](#)
 - [Good Housekeeping Facilities Power Point Handout](#)
 - [Good Housekeeping Stormwater Control Measures Power Point](#)
 - [Good Housekeeping Stormwater Control Measures Power Point Handout](#)
 - [Good Housekeeping Video, June 17](#)
 - [Attendance 2021-06-17.pdf](#)
- Good House Keeping/IDEP Training 2010
 - [Manual](#)
 - [Power Point Presentation](#)

Attendance 2021-06-03 IDEP Training

Arch Environmental Group	<ul style="list-style-type: none">• Kellie Das• Brendan Koziol
City of Grand Blanc	<ul style="list-style-type: none">• Matt Wurtz• Brian Kelly• Mike Richardson• Eric Hunt• Ben Perkins• Jim Lowes• Blase Schumacher• Joe Cassels
City of Clio	<ul style="list-style-type: none">• Michele Perry• Eric Wiederhold• Mike Glasgow• Chris Roslions• Brian Ducham
City of Fenton	<ul style="list-style-type: none">• Dan Brisson• Brian Waller• Dan Wayne
City of Linden	<ul style="list-style-type: none">• Scott Fairbanks• Kevin Tyler• Brian Edwards• Joe Panula• Tom Trice
City Mt. Morris	<ul style="list-style-type: none">• Mark Waites• Zach Roth• Tanner Niedecken• Paul Zumbach
Fenton Township	<ul style="list-style-type: none">• Melissa Lawrence• Tom Broecker
Flint Township	<ul style="list-style-type: none">• Karen Miller• Tracy Tucker
GCRC	<ul style="list-style-type: none">• Eric Johnston• Michael McPherson• Randall Dellaposta

GCDC-SWM	<ul style="list-style-type: none"> • Tom Jones • RJ Antoskik II • Bill Poster • Heather Kronenberg
GCDC-WWS	<ul style="list-style-type: none"> • Jim Thompson • Kevin DePottey
GISD	<ul style="list-style-type: none"> • Jeff Jansen • Troy Dean • Dan Newcombe • Karl Lang
Lake Fenton Schools	<ul style="list-style-type: none"> • Jake Staley
Linden Schools	<ul style="list-style-type: none"> • Greg Vadasz • Dan LaMothe
Westward Heights	<ul style="list-style-type: none"> • Tim Clontz

Attendance 2021-06-10 Good Housekeeping Training

Arch Environmental	<ul style="list-style-type: none">• Brendan Koziol• Kellie Das
City of Clio	<ul style="list-style-type: none">• Mike Glasgow• Chris Rolison• Brian Ducham
City of Fenton	<ul style="list-style-type: none">• Brian Waller• Dan Wayne• Dan Brisson
City of Grand Blanc	<ul style="list-style-type: none">• Matt Wurtz• Brian Kelly• Mike Richardson• Blase Schumacher• Eric Hunt• Ben Perkins• Joe Cassels• Jim Lowes
City of Linden	<ul style="list-style-type: none">• Scott Fairbanks• Kevin Tyler• Joe Pantula• Tom Trice• Brian Edwards
City of Mt Morris	<ul style="list-style-type: none">• Mark Waites• Zach Roth• Tanner Niedecken• Paul Zumbach
Davison	<ul style="list-style-type: none">• Rod Hoover
Fenton Township	<ul style="list-style-type: none">• Thomas Broecker• Melissa Lawrence
Flint Township	<ul style="list-style-type: none">• Karyn Miller• Tracy Tucker
GC Parks	<ul style="list-style-type: none">• Jacob Maurer

GCRC	<ul style="list-style-type: none"> • Dan Hudson • Randall Dellaposta • Eric Johnston • Troy Herriman • Alex Cook • Jason Pully • Vincent Mossman
Lake Fenton School	<ul style="list-style-type: none"> • Jake Stanley
Linden Schools	<ul style="list-style-type: none"> • Dan LaMothe
GCDC-SWM	<ul style="list-style-type: none"> • Sue Hogan • Tom Jones • Dan Christian • RJ Antosik II • Dave Ribarchek
GCDC-WWS	<ul style="list-style-type: none"> • Kevin Hannigan • Kevin DePottay • Lony Smith • Jim Thompson
Westward Heights	<ul style="list-style-type: none"> • Tim Clontz
	<ul style="list-style-type: none"> • Lisa Genow
	<ul style="list-style-type: none"> • Don Bright
	<ul style="list-style-type: none"> • Mike Jaeger
	<ul style="list-style-type: none"> • ianspach

Attendance 2021-06-17 IDEP Training

Arch Enviromental	<ul style="list-style-type: none"> • Brendan Koziol • Kelli Das
City of Clio	
City of Fenton	<ul style="list-style-type: none"> • Dan Brisson • Brian Waller • Dan Wayne
City of Grand Blanc	<ul style="list-style-type: none"> • Matt Wurtz
City of Linden	<ul style="list-style-type: none"> • Tom Trice • Brian Edwards • Joe Panula • Kevin Tyler • Scott Fairbanks
City of Mt.Morris	<ul style="list-style-type: none"> • Paul Zumbach • Mark Waits • Tanner Neidecken • Zach Roth
Fenton Township	<ul style="list-style-type: none"> • Melissa Lawrence • Tom Broecker
Flint Township	<ul style="list-style-type: none"> • Karen Miller • Tracy Tucker
GC Parks	<ul style="list-style-type: none"> • Jacob Maurer
GCRC	<ul style="list-style-type: none"> • Alex Cook • Eric Johnston • Vincent Mossman • Mike McPherson • Randall Dellaposta
GCDC-SWM	<ul style="list-style-type: none"> • Heather Kronenberg • Tom Jones • Bill Poster • Sue Hogan • Dan Christian

GCDC-WWS	<ul style="list-style-type: none"> • Lony Smith • Kevin DePottey • Jim Thompson
Mt.Morris Township	<ul style="list-style-type: none"> • Amanda Propes • Jolena Sims
Swartz Creek	<ul style="list-style-type: none"> • Andy Harris
Westward Heights	<ul style="list-style-type: none"> • Tim Clontz
	<ul style="list-style-type: none"> • Lisa Genow

Other Water Education Efforts throughout the County That Are Not in Table 2

- Community walking path along river has free standing watershed signage, between Genesee County parks and City of Flushing Park.
- Park provides education on proper disposal of pet waste at the City of Flushing Park walkway.
- There is an Annual River cleanup on the first week of June along the Shiawassee River, organized by a Fenton Council Members.
- The FRWC coordinates an annual stewardship day that includes cleaning up trash along the river within Genesee and Lapeer counties. Staff from the County and local municipalities including the Drain Office, Parks and Rec, City of Flushing, City of Flint, and others assisted with the cleanup by provided staff or garbage removal. This event was promoted to have volunteers do it on their own instead of in groups due to Covid
- Flint River Corridor Alliance is a community organization of Government, non-profit and private sector stakeholders, focusing on the Flint River as it goes through the City of Flint. They have completed the securing of grant money to remove the Hamilton and Fabri dams located within and owned by City of Flint. They have partnered with Genesee County Parks and Rec to facilitate the dam removals. They also sponsor an annual Floatilla on the Flint River and other events promoting the Flint River.
- Genesee County Parks provides education on many subjects including storm water. (**H2 knOw!**). Genesee County, specifically the Parks and rec owns many acres along the Flint



River providing defined access for the public. They also provide support for many water programs.

- Genesee County Water and Waste www.gcdcwws.com has education and oil/ grease drop off for residents. This prevents sanitary sewer overflows.



Welcome to the Residential Cooking Fats, Oils & Grease Recycling Program



The goal of the program is to protect the environment by keeping cooking fats, oil and grease out of the Genesee County sewer system and landfills. Genesee County Water and Waste Services wants to remind residences that fats, oils and grease from cooking should not be poured down their sinks or drains. When cooking Oils is discarded into your sinks or drains it accumulates inside the sewer pipes making it difficult for wastewater to flow freely to the wastewater treatment plant. When wastewater cannot make its way through the sewer pipes, it overflows into homes, streets, lawns and storm drains eventually making its way into the water shed.



The program is free to residence through the support of Darling Inc. who collects and recycles the cooking oil, fats and grease into any number of products such as biofuels, make-up, crayons...etc. Genesee County residents and churches may deliver up to 5 gallons of waste cooking oil and grease to the following locations:



[Anthony Ragnone Wastewater Treatment Plant](#) – 9290 Farrand Rd. Montrose, MI 48457.

[Genesee County Division of Water & Waste Operations & Maintenance](#) – G-4612 Beecher Rd. Flint, MI 48532.

[Linden Wastewater Treatment Plant](#) – 14412 Hogan Rd. Linden, MI 48451.

Persons utilizing the program must check in at the front office at these locations. Drop off times will be 8am to 3pm Mon.-Fri. excluding holidays. No commercial kitchens please. No petroleum based oils will be accepted. Please contact David Thibeault with questions at 810-732-7870 ext.4154.

Grease Myths

It's okay to pour grease down the drain as long as...



... I use the garbage disposal.

MYTH! The garbage disposal only grinds up items before passing them into your sewer pipes.

... I run hot water.

MYTH! Hot water only gives the illusion of dissolving grease. The grease will eventually cool and build up in the pipes.

... I chase it down with a dose of dish soap.

MYTH! Dish soap temporarily breaks up grease as you wash your dishes, but the soap will eventually lose its effectiveness causing the grease to solidify in the pipes.

... it is a liquid oil at room temperature.

MYTH! Liquid cooking oils, like canola oil and olive oil, float on wastewater and easily adhere to sewer pipes.

