

ANNUAL STORMWATER PROGRESS REPORT
FOR
PITTSFIELD CHARTER TOWNSHIP



Prepared in compliance with
Michigan Department of Natural Resources and Environment

PHASE II STORMWATER PERMIT
MIS0490000

and

CERTIFICATE OF COVERAGE
MIS040021
For the Period September 2013 through August 2015

Pittsfield Charter Township
Office of Supervisor
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Ann Arbor, MI 48108
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Annual Stormwater Progress Report

Covering the period September 2013 through August 2015

Michigan General Permit Number MIG619000 | MIS0490000

Certificate of Coverage Number MIS040021

Permittee: Pittsfield Charter Township

Mailing Address: 6201 W. Michigan Avenue Ann Arbor, MI 48108

Contact Person: Mandy Grewal

Telephone: 734-822-3135

Title: Supervisor

Date: October 1, 2015

Signature of Authorized
Permittee Representative



Craig Lyon
Director of Utilities & Municipal Services

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Introduction

This document fulfills Pittsfield Charter Township's NPDES Phase II stormwater permit requirement for a Progress Report. This report includes information on progress made over the time period stated on the cover towards compliance with the six minimum measures and other commitments made in Pittsfield Charter Township's Stormwater Pollution Prevention Initiative (SWPPI) or Stormwater Management Plan (SWMP) pursuant to the permit listed on the cover. Subsequently, Pittsfield Charter Township submitted an application for a new permit, which has not yet been drafted or approved by MDEQ. Thus, this report follows items and requirements under the previous (expired) permit.

This document also reports on the assessment of water quality in the area affected by Pittsfield Charter Township's stormwater discharge along with any changes made to Best Management Practices (BMPs) or Watershed Management Plans (WMP). The report follows reporting requirements specified in the permit and is organized by the six minimum measures, with additional reporting sections at the end.

I. Compliance Assessment

A. Public Participation Plan (PPP)

A PPP was most recently developed for most permittees in the middle Huron River watershed and submitted to the MDEQ in July 2009. It was revised and resubmitted in July 2010. A Watershed Management Plan (WMP) for the Middle Huron River was approved by MDEQ in 2008. Since that time, the permittees within the Middle Huron River Watershed have focused on implementing activities within the WMP and have additionally developed specific implementation plans to address water quality impairments. These activities are reported in other sections of this report.

Review and revision of the WMP

The 2008 version of the WMP was reviewed and updated by the Huron River Watershed Council (HRWC) in 2010-11. It was then made available for public review via HRWC's website. The WMP was approved by MDEQ in 2011. The WMP continues to be available to the public via the Huron River Watershed Council's (HRWC) website at <http://www.hrwc.org/publications/watershed-management-plans/> (number 7 on the list). The following TMDL Implementation Plans were developed or revised and submitted to MDEQ:

- Malletts Creek (biota impairment)
- Swift Run (biota impairment)
- Ford and Belleville Lakes (nutrient impairment)
- Argo to Geddes section of the Huron River (bacteria impairment)

Additionally, in April 2014 a plan for Honey Creek (bacteria impairment) was submitted and approved by MDEQ in September 2014. That plan can also be found on the HRWC WMPs webpage.

The above plans are all referenced in the umbrella WMP and are available through the Middle Huron Stormwater Advisory Group (SAG) website at <http://www.hrwc.org/middle-huron-sag/>.

Citizen Advisory Committee

In 2008 the permittees within the Middle Huron River Watershed formed the Middle Huron Stormwater Advisory Group (SAG). This is a forum, open to the public, for planning, discussion and reporting on stormwater treatment and management practices. During the reporting period, the SAG met on the following dates:

- October 9, 2013
- February 25, 2014
- July 22, 2014
- November 13, 2014
- April 2, 2015

Meeting agendas and lists of attendees to the meetings are included in Appendix A. All questions about meetings should be directed to Ric Lawson the SAG facilitator (rlawson@hrwc.org, 734-769-5123 ext.609).

In addition to the SAG meetings, HRWC and SAG partners also facilitate public meetings focused on planning and implementation activities within high priority tributaries. These groups include the Malletts Creek Coordinating Committee (MC3), the Millers Creek Advisory Team (MCAT), and the Fleming Creek Advisory Committee (FCAC). The MC3 and MCAT meet monthly to quarterly as needed.

The MCAT also met separately to advise on the development and review of a Sediment Accumulation Study, which was completed and is now available at <http://tinyurl.com/nwfomfe>. The FCAC was revived in March of 2013 and began meeting monthly in September 2013 to develop an informal watershed management plan and project priorities. The FCAC is currently in the data collection process and is developing project goals. All three groups also meet to review development proposals from within the tributary. A list of meeting dates is included in Appendix A. Attendees lists and agendas can be requested from Ric Lawson.

Pittsfield Charter Township

Pittsfield Charter Township is in compliance with the Public Involvement and Participation portion of the approved Stormwater Management Plan with continued partnerships and cooperation with other watershed groups.

Pittsfield Charter Township's Stormwater Management Committee (SWMC) was created by the Board of Trustees in July, 2009 as a standing committee, to support best practices for Stormwater Management throughout the Township. The Board also recognized that public involvement is one of the Six Minimum Measures of the Environmental Protection Agency (EPA) for Phase II Stormwater Permit compliance.

On March 14, 2012, Pittsfield Charter Township Board of Trustees passed a resolution that incorporated the Natural Resources Committee into the Stormwater Management Committee. This resulted in an expanded role for SWMC and also increased membership to provide for regional representation by such agencies as the Huron River Watershed Council and River Raisin Watershed Council.

The Committee advises the Board of Trustees and examines long-range strategies for the following issues:

- Pittsfield Charter Township Stormwater Management Plan
- Enhancing stormwater best-management practices
- Establishes public programming activities in compliance with Township’s Stormwater Management Plan
- Provide updates to the Township regarding permit compliance

The Committee has 11 members, each serving 2-year terms, appointed by the Township Board of Trustees.¹

The SWMC has met six times during the reporting period and the minutes of each meeting are posted for the public in the *Legal Notices* section on the township website, <http://www.pittsfield-mi.gov>.

November 14, 2013
February 12, 2014
May 8, 2014
August 13, 2014
November 13, 2014
February 11, 2015

The Stormwater Management Committee Staff Liaison regularly attends meetings of the Huron River Watershed Council’s Middle Huron Watershed Initiative & Stormwater Advisory Group to formulate watershed goals, participate in cooperative efforts with other watershed partners, and take advantage of training opportunities offered through local agencies.

Stormwater Liaison (permit) staff has participated in:

- Huron River Watershed Council (HRWC) Annual meetings
- Huron River Watershed Council Board meetings
- Stormwater Utility seminars
- Huron River Day
- Huron River Watershed Partner’s Meeting

¹ It is proposed that the SWMC will have authority to hear appeals regarding Wetlands Use Permits, provide recommendations regarding planning and assisting in wetlands policy administration, serve in an advisory role in setting policy guidelines on wetlands issues in the Township, identify conflicts between wetlands protection and Township policies, ordinances, operating procedures, and activities, and coordinate with MDEQ in keeping up-to-date on issues affecting wetlands protection.

Additionally, it is also proposed that the SWMC will recommend plans and programs to protect and acquire important wetlands through incentives, donation, development rights, easements, land exchange, purchase, and other means; develop educational programs for the public and for area schools to promote the values of wetlands and awareness of the hazards and threats to wetlands. Such programs should be particularly targeted to landowners or building promoters or construction contractors with wetlands and emphasize how best to protect wetlands values on their property; oversee the development and administration of the voluntary Wetlands Registry and Stewardship Program and create incentives for participation; develop procedures for interested citizens to participate directly in stewardship and preservation of specific wetlands; review degraded or destroyed wetlands in the Township for possible rehabilitation or restoration; prioritize sites, and seek grants and donations to fund restoration.

B. Public Education Plan (PEP)

The PEP section of our SWPPI was developed to promote, publicize, and facilitate watershed education in the Middle Huron watershed. Following is a summary of the progress made on PEP implementation.

Activity #1: HRWC and/or Southeast Michigan Partners for Clean Water Informational Materials

Brochures, tip cards, posters, and other materials developed by HRWC or the regional public outreach campaign, “Our water. Our future. Ours to Protect” were distributed by individual jurisdictions.

These materials contain information that covers required Topics 1-8. The overall campaign promotes key messages on proper use of fertilizer, car care, landscaping, storm drain awareness, household hazardous wastes, water conservation, pet care, and riparian protection.

During the reporting period the Southeast Michigan Partners for Clean Water met periodically to review existing materials and propose updates and revisions to the campaign messaging and delivery methods.

Updated tip cards on storm drains, landscaping, household hazardous waste, pet care, lawn care and car care were released by the Southeast Michigan Council of Governments in the spring of 2015 for printing and distribution. See <http://semcog.org/What-You-Can-Do-/To-Protect-Our-Waterways>.

Further details on Partners for Clean Water activities can be found in their 2014-15 report (<http://semcog.org/Portals/0/Documents/Plans-For-The-Region/Environment/PartnersforCleanWaterReportSeptember2015.pdf>). Their previous report covering October 2012 to September 2013 can be obtained upon request.

Pittsfield Charter Township

Pittsfield Charter Township continues to strive for compliance with the Public Education portion of the approved Stormwater Management Plan. Minutes of the public meetings of the Stormwater Management Committee are available at the township website, <http://www.pittsfield-mi.gov>, in the *Legal Notices* section for interested residents or businesses.

SEMCOG “Ours to Protect” brochures, Pittsfield Charter Township’s Promoting River-Friendly Lawn Care, Lawn Fertilizer Regulation” brochure, and Huron River Watershed Materials are distributed at the township Administration building. Please refer to the Stormwater Management Plan for additional information that addresses *proposed* public education implementation of best management practices via township website.

Activity #2: Community Watershed Calendar

During the reporting period HRWC and participating communities produced, printed, and distributed 37,000 2014 Watershed Community Calendars presenting a full year of monthly informational pollution prevention tips targeted to homeowners in a single printed piece. The tips and provided resources related to permit topic requirements such as illegal dumping, fertilizer and yard care, rain barrels, pet waste, car care, rain gardens and native plants, home toxics, storm drain awareness and general watershed education.



Participating communities distributed calendars to residents either through direct mail*, at customer service counters or through other channels as follows:



	2014	2015
City of Brighton*	3200	N/A
Livingston County Drain Commission	700	450
Livingston County Road Commission	200	450
Village of Pinckney	900	900
City of Ann Arbor*	21000	20000
Ann Arbor Public Schools	500	100
Village of Dexter*	1500	1500
Washtenaw County Water Resources Commissioner	300	300
Pittsfield Charter Township	500	500
City of Ypsilanti	1500	1500
Charter Township of Ypsilanti	2500	2500
Eastern Michigan University	2500	2500
Washtenaw County Road Commission	300	300
Barton Hills Village	150	150
Marion Township	500	N/A
Huron River Watershed Council*	1750	2350
Green Oak Township	N/A	500
TOTAL	37000	33000

HRWC distributed calendars through direct mail, at key organizational events and in person, promoting it through HRWC’s printed newsletter (direct mailed to 2,000 recipients), marketing emails (5500+ recipients), home page blog (9,000 monthly average unique page views), and social media announcements on Facebook and Twitter.

The 2014 Watershed Community Calendar also included a special 8-page “H2O Hero Handbook.” 1,000 additional handbooks were printed and distributed to watershed residents at community events throughout 2014 and 2015. See activity #12 below.

Pittsfield Charter Township

From September 2013 through August 2015, over 500 Mini Calendars were distributed by Pittsfield Charter Township. The calendars were available at the Administration and Parks and Recreation offices and distributed at events for the general public.

Activity #3: Information in Community Newsletters and on Websites

Seasonal newsletter inserts of tips and information on nonpoint source pollution prevention topics are developed by HRWC annually and made available in pdf format for community use on www.hrwc.org/our-work/programs/middle-huron-sag/ (under Public Education Materials).

These materials also include a series of 12 advertisements in various sizes and formats (jpeg, pdf) that correspond to the 2012 Watershed Community Calendar branding, monthly topics and messaging.

Additionally HRWC publishes announcements, articles, tips and promotions that focus on nonpoint source pollution prevention and water quality information using the following distribution channels:

- www.hrwc.org (98,778 sessions with 196,372 page views overall during the period September 1, 2013 through August 27, 2015—65.65% new visitors).
- www.facebook.com/huronriver (1,279 page likes as of August 27, 2013 to 1,892 page likes as of August 21, 2015).
- Monthly e-mail newsletter (5,632 average monthly contacts with an average open rate of 10.2%).
- Printed quarterly newsletter (direct mailed to over 2,000 HRWC members and distributed to the following watershed libraries: Huron High School, Ann Arbor District, South Lyon, Milford, Chelsea, Belleville, Flat Rock, Pinckney, Ypsilanti District, Brighton Public, Dexter District).

The featured landing page of the calendar and ads, www.hrwc.org/h2oheroes and homeowner tips pages in the “Take Action” section, www.hrwc.org/take-action had the following results over the reporting period:

- www.hrwc.org/h2oheroes (featured landing page of calendar and ads) 110 page views with 89 unique page views.
- www.hrwc.org/take-action/capture-rain (content pages featuring rain gardens, rain barrels and native plants) – 3,263 page views with 2,458 unique page views. “Garden with native plants” was the most popular topic with 67.3% of the total page views going to that tips page.
- www.hrwc.org/take-action/water-pollution (content pages featuring nonpoint source pollution prevention tips) – 1,343 page views with 1,101 unique page views.

- www.hrwc.org/take-action/waterfront-wise--230 page views with 212 unique page views.
- www.hrwc.org/take-action/save-water-save-energy--834 page views with 704 unique page views.

Pittsfield Charter Township

The *homepage* of the Township website, <http://www.pittsfield-mi.gov>, was updated regularly with the following seasonal information for residents and local businesses:

<u>Public Education/Seminar Announcement</u>	<u>Date</u>
Please Pick Up Pet Waste In Your Yard	June 21, 2013 – September 30, 2013
Help Prevent Stormwater Pollution This Winter	January 8, 2014 – January 20, 2014
What are you doing with your leaves this Fall? Consider these river-friendly options.	May 13, 2014 – May 23, 2014
County Clean Up Day	May 8, 2014 – May 17, 2014
Stormwater Management Committee	May 13, 2014 – May 20, 2014
Have A Green Lawn & Comply With The Law	May 13, 2014 – May 30, 2014
Fats, Oils and Grease Brochure	July 7, 2014 – July 18, 2015
Help Prevent Stormwater Pollution This Winter	October 1, 2014 – October 17, 2014
America Recycles Day at the Reuse Center on Saturday November 15 th	October 15, 2014 – November 15, 2014
Where are you doing your leaves this fall? Leaves vs. Rake	October 6, 2014 – November 10, 2014
Pittsfield Township Receives Sustainable Community Leader Award from SEMCOG	December 11, 2014 – December 22, 2014
Help Prevent Stormwater Pollution This Winter	December 5, 2014 – March 1, 2015
HOA Stormwater Seminar	April 25, 2015 – May 12, 2015
Have A Green Lawn & Comply With The Law	June 25, 2015 – July 24, 2015
Fats, Oils and Grease Brochure	July 7, 2015 – July 24, 2015
What are you doing your leaves this fall? Leaves vs. Rake	September 21, 2015 – November 15, 2015

Activity #4: Local Newspaper and Web Advertisements

2014 – 12 months of print ads placed in the Ann Arbor Observer going to City of Ann Arbor residents with a circulation of 60,000 and a readership of 120,000. See ads at www.hrwc.org/our-work/programs/middle-huron-sag/ (under Public Education Materials).

Ads resembled and reinforced the Watershed Community Calendar messaging, promoting the dedicated campaign web site, www.hrwc.org/h2oheroes and containing detailed information and additional resources.

Activity #5: Promote Water Resource Protection Workshops

Across the entire reporting period, HRWC also organized and promoted the following community events/workshops incorporating water quality and nonpoint source pollution prevention informational materials:

- Water Quality Monitoring volunteer trainings, March 2014, 2015
- Educator Trainings, April, 2012
- Volunteer Data Sharing, November 2014, 2015
- Sectional River Clean-ups, Summer 2014, 2015
- River Round-Up, April and October, 2014, 2015
- Stonefly Search, January, January, 2015
- Huron River Walks, May 16, June 17, 2014
- Green Infrastructure Workshops, October 2013
- Huron River Paddle and Education Trips (6 total), Summer 2014, 2015
- Washtenaw Green Infrastructure Planning (with SEMCOG), September 2013
- Climate Resiliency – Water Infrastructure Planning February, April 2015
- Water Quality Celebration Honoring Rep. John Dingell, July 2014
- Malletts Creek and Fleming Creek Subwatershed Advisory Group meetings, quarterly, 2014, 2015
- HRWC State of the Huron Conference, April 2014
- HRWC Annual Meeting, April 2015
- Swift Run Stakeholders Meeting, July 2015

Master Rain Gardener Program

The Washtenaw County Master Rain Gardener class was offered:

Thursdays - February 27-March 27, 2014, and
Wednesdays - February 26-March 26, 2015

Please see the full description under Activity 20 – Residential Rain Garden Program.

Pittsfield Charter Township

Fats, Oils and Grease Seminar

Pittsfield Charter Township conducted a Fats, Oils and Grease seminar for local food establishments on October 23, 2013. In conjunction with the Washtenaw County Environmental Health Department, the listing of Food Service Establishments in Pittsfield Charter Township was also updated at this time. A seminar was prepared in conjunction with the Washtenaw County Water Resources Commissioner office and marketed via print, website announcements, and phone calls to all private and public facilities that prepare food in the township. The session was attended by eight (8) restaurants and a participants list is on file with the Washtenaw County Water Resource Commissioner's Office. Additionally, the upcoming Fats, Oils and Grease Seminar will be held at Pittsfield Charter Township on November 12, 2015.

Pittsfield Charter Township

HOA Stormwater Seminar

On May 14, 2015, Pittsfield Charter Township in coordination with the Washtenaw County Water Resource Commissioner's Office, developed, advertised, and delivered a presentation to seven Homeowner/Property Associations in Pittsfield Charter Township. The presentation provided information aimed at improving stormwater quality, including maintenance of storm drains, detention/retention basins, and ponds in the area. The neighborhood leaders and businesses were particularly interested in photographs of field examples, recommendations regarding neighborhood maintenance actions, and a frank discussion of drainage responsibilities. The Washtenaw County Water Resource Commissioner's office had practical educational recommendations about steps that homeowners can easily take to improve water quality.

The materials that were distributed included:

- "Maintaining Your Detention Pond – A Guidebook for Private Owners in Southeast Michigan"
- "Paint Pointers" brochures
- "Prescription Drug & Personal Care Product Disposal" brochures
- "What to do about FOG (Fats, oils and Grease)" brochures-
- "I Think I Saw A Fish On My Street brochures
- "Make Your Home A Riversafe Home" brochures
- Washtenaw County Celebrates Rain Gardens Information
- "What to Do About FOG (Fats, Oils and Grease)" brochures
- "Natural Lawn" brochure

Prior to the 2015 Homeowner's Association Stormwater Seminar, a stormwater survey was distributed to HOA's for the distribution to the residents of Pittsfield Charter Township. The stormwater survey gauged resident's knowledge of stormwater, as well as gathered the information residents were interested in seeing presented at future seminars.

The participants' feedback was very positive; ideally this is presentation that may be shared with other communities for Public Education usage.

Activity #6: Promote and Support Volunteer Stream Monitoring

Each year, HRWC hosted several activities or monitoring events that inspire the protection of local fresh water resources. One event measures the physical conditions (described below) and the other event ("bio-monitoring") measures the aquatic invertebrate community.

In bio-monitoring events, held in January (Stonefly Search), April (River Roundup) and September (River Roundup), volunteers spend the day as part of a small research team, examining the conditions of two streams. Streams are selected to be strikingly different in quality. Each team collects samples of creatures (macroinvertebrates). They notice immediately that one stream is teeming with life while the other appears nearly "dead." This comparative difference is an effective way for residents to discover for themselves that some local streams have deteriorated while others remain healthy which leads to inquiry about the causes of stream deterioration, the conditions of their local stream, and possible solutions. HRWC attempts to visit 40 locations per event (3 per year), which our volunteers have been able to keep up with.

In 2013 we visited 107 unique locations (some duplication), in 2014, 82 (Stonefly was cancelled due to severe weather), and we've been to 77 sites thus far in 2015.

A follow-up report and annual presentation by HRWC responds to volunteer concerns by providing results of the monitoring events and an explanation of the primary causes of local stream deterioration, tools to address local stream issues and "tip cards" or information for homeowners and other residents on protecting water quality.

Annually in the summer volunteers measure the physical conditions of streams. They learn to "read a river" by studying the conditions that affect the ecological health of the sites. Participants form small teams to complete an evaluation of at least one site.

HRWC's program serves the entire watershed, a 900-square mile area that drains into the Huron River and then into Lake Erie. The area includes approximately 525,000 residents and parts of seven counties in southeastern Michigan, primarily Livingston, Oakland, Washtenaw, and Wayne Counties. The pool of volunteers, who live in many of the in 67 watershed communities, is currently around 600, with up to 150 routinely participating in each event. HRWC has successfully drawn volunteers from throughout the watershed. Over 2014 and 2015 we have focused recruitment in the TrailTowns (Milford, Dexter, Ann Arbor, Ypsilanti, and Flat Rock). While recruitment from these municipalities is slowly growing, the increased outreach, along with other TrailTown activities, have garnered numerous additional new partnerships and overall public awareness.

Additionally, HRWC operates a Water Quality Monitoring Program on behalf of partners in Washtenaw and Livingston Counties. This program, which utilizes volunteer sample collectors, is described in more detail in the Water Quality Data and Assessment section.

Pittsfield Charter Township

Pittsfield Charter Township continually promotes HRWC Rain Barrel Sale and the Adopt-a-Stream stonefly identification and count.

Activity #7: Catchbasin/Storm Drain Labeling

Adopt-a-Stormdrain Program

Stormdrain awareness is a priority for public education efforts of stormwater phase I and II regulated communities. Historically, many communities have labeled and marked stormdrains with language that explains that they go directly to the local surface waters. This effort was usually combined with the distribution of door hangers that provided more detailed information about stormwater, non-point source pollution and the proper disposal of motor oil, grass clippings, pet waste, and other pollutants. With many of the urban stormdrains now labeled/marked, the effort has shifted to maintenance by local street or public works staff.

In 2010 the Middle Huron Stormwater Advisory Group members began development of an Adopt-A-Stormdrain program for key areas of Washtenaw County. The program is designed to recruit public and private partners to take sustained action to keep storm drains labeled, clear and clean by working with a committed group of individuals. These volunteers also report problems to the local governments and serve as the neighborhood watchdogs and educators.

HRWC developed the program format and structure, creating waivers, intake and reporting forms, instructions and tips, etc. See www.hrwc.org/our-work/programs/adoptastormdrain/. Volunteers participated in the program by clearing debris from and applying new “Dump No Waste, Drains to River” markers to stormdrains and distributing informational door hangers to nearby neighborhood residences.

In June 2014 and 2015 the program hosted a crowd-sourced stormdrain art event at a key community festival, the Ann Arbor Mayor’s Green Fair. Stormdrains located at the fair’s central intersection were decorated with chalk by a professional artist and the public with direction by an art educator. Informational flyers promoting the Adopt-A-Stormdrain program were distributed to attendees. HRWC staff and volunteers promoted the connection between stormdrains and water quality.

During the reporting period the 125 Adopt-A-Stormdrain program volunteers donated 400 hours of service, while placing 400 stormdrain labels and 1850 door fliers. Service was delivered to multiple locations in Ann Arbor as well as Ypsilanti Township. The Adopt-A-Stormdrain web page has experienced 485 page views with 398 unique page views. The program’s volunteer sign up page has 383 page views with 270 unique page views in the same timeframe.

Activity #8: Promote County-Wide Complaint Tracking and Response System

The Washtenaw County Environmental Reporting Line (734-222-3800) is in operation during business hours (Monday-Friday, 8:30 to 5:00) and staffed by the Washtenaw County Environmental Health Department. Brochures promoting the Environmental Reporting Line are distributed at County Offices, provided to local governments for lobby and/or special event distribution and are available from the Water Resources Commissioner’s Office upon request.

Activity #9: Promote Soil Testing

Beginning January 1, 2012, phosphorus fertilizer applications are restricted on residential and commercial lawns in Michigan, including athletic fields and golf courses statewide. This includes applications by both homeowners and commercial applicators.

The general rule in the Michigan Fertilizer Law is no phosphorus fertilizer may be applied on residential or commercial lawns, unless it meets an exemption. The sale of phosphorus fertilizers in the marketplace is not impacted. Phosphorus applications for agriculture, gardens, trees, and shrubs are exempted. In September 2011 HRWC participated in a phosphorus fertilizer workgroup coordinated by the Michigan Department of Agriculture & Rural Development. MDARD produced a homeowner brochure and additional phosphorus information (available at www.michigan.gov/mda-fertilizer and www.BePhosphorusSmart.msu.edu).

In 2012, the soil testing program transitioned to a web-based mail in program run by MSU Extension where consumers were directed to purchase (\$25) a soil test kit, mail-in their samples and get results by email which they then plug into a website tool for interpretation. A total of 1,075 page views were recorded on the Washtenaw County soil testing information page at http://www.ewashtenaw.org/government/departments/extension/ex_extsoil.html.

HRWC promoted the “go phosphorus free” messaging to the public in April 2014 and 2015 through the Watershed Community Calendar (Activity #2), Information in Community Newsletters and on Websites (Activity #3), and Local Newspaper and Web Advertisements (Activity #4).

Pittsfield Charter Township

Pittsfield Charter Township actively promotes the use of soil testing through announcements on the homepage of its website, <http://www.pittsfield-mi.gov>, including Pittsfield’s Lawn Fertilizer Ordinance (in effect for 6 years) and a new State Law that prohibits applying fertilizer containing phosphorus that took effect January 1, 2012.

Pittsfield Charter Township continues to utilize a Fertilizer Application Registration form to track the sales and application of fertilizer. Those selling and applying fertilizer must register annually with Pittsfield Charter Township.

Activity #10: Riparian Land Management Brochures

During the reporting period HRWC produced a 12-page booklet, “Waterfront Wisdom, 7 tips for creating and maintaining a beautiful and healthy waterfront,” an updated adaptation of a booklet designed by Environmental Consulting & Technology and published by the Oakland County Water Resources Commissioner. A series of tips web pages have also been posted with information and resources for shoreline property owners on shoreline buffers, aquatic invasives, preventing soil erosion, and benefits of keeping boats clean.

These materials were developed and printed for the outreach requirements of the Portage Creek Implementation Project funded in part through the Michigan Nonpoint Source Program by the US Environmental Protection Agency under the Clean Water Act, assistance agreement C995474-12. The project direct mailed them to 1800 Portage Creek riparian homeowners and bulk quantities were provided to Unadilla, Lyndon, Dexter, Village of Stockbridge, Stockbridge and the Department of Environmental Quality. A digital version of the booklet is also publicly available at the web site. See at www.hrwc.or/take-action/waterfront-wise.

HRWC and participating communities printed additional booklets (not funded by the Michigan Nonpoint Source Program) for distribution to riparian landowners outside of the Portage Creek project area. During the reporting period 925 print booklets were distributed in person directly to watershed residents.

Pittsfield Charter Township

The Township has developed a Natural Lawn Ordinance, No. 298, and a Natural Lawn Application for homeowners. At our annual Stormwater Maintenance Educational Seminar, we discuss the riparian lands with our Township residents. We have developed educational materials including the Maintaining Your Detention Pond brochure, and a Natural Lawn brochure.

A riparian handout distributed by Washtenaw County Water Resource Commission is available to the public at the Pittsfield Charter Township Administration Building. The handout explains

what a riparian buffer is, why they are important, as well as how to create one. The handout also lists helpful websites where more information on riparian landscaping can be obtained.

Activity #11: Stream and River Crossing Road Signs

Through a partnership with the Washtenaw County Water Resources Commissioner's Office, Washtenaw County Road Commission and local governments, 59 stream crossing signs were designed, produced and installed in highly traveled Phase II County road rights-of-way areas to promote watershed awareness to residents and visitors.

Activity #12: Displays and Outreach at Local and Regional Fairs and Community Events

HRWC coordinated and staffed displays and table activities at the following community events during the reporting period:

- Fly Fishing Film Tour (February 2014, 2015)
- Home, Garden & Lifestyle Show Washtenaw County (March 2014, 2015)
- Chelsea Expo (March 2014)
- Eastern Michigan University Green Week (March/April 2015)
- Earth Day, Schoolcraft College, Washtenaw Community College, Ann Arbor and Whole Foods (April 2014, 2015) and Toyota and Milford (April 2014)
- Ann Arbor Mayor's Green Fair (June 2014, 2015)
- Huron River Day (July 2014, 2015)
- Milford Farmers Market (July 2014)
- Dexter Daze (August 2014, 2015)
- Hudson Mills Fly Fishing Festival (August 2015)
- Ypsilanti Heritage Festival (August 2014)
- University of Michigan EarthFest (September 2014, 2015)
- Flat Rock Riverfest (September 2014, 2015)
- Park It on the Lakelands Trail in Pinckney (September 2014)
- Milford Community Picnic (September 2015)

At the 2014 Ann Arbor Earth Day Festival in April, HRWC hosted a unique tabling activity for children, helping them decorate "H2O Hero Masks", handing out H2O Hero Handbooks and teaching them about the Huron River watershed. Over 350 masks were made during the 4 hour festival with help from six Honor Society volunteers from Skyline High School.

In 2014 and 2015 in March HRWC partnered with the Washtenaw County Water Resources Commissioner's Office, to host a booth at the Washtenaw Home, Garden & Lifestyle Show. Both years, the booth featured native plants and rain garden displays and information and in 2015 Waterfront Wisdom and riparian information became a highlight. Experts in sustainable landscaping (Drew Lathin, Sustainable Landscape Designs) and rain gardens (Susan Bryan, WCWRC) were on hand to promote and advise homeowners on best practices. Leading up to Home, Garden & Lifestyle, WCWRC and HRWC appeared as guests to present "Rain Gardens

101” on the Lucy Ann Lance “Around the Home” show, 1290 WLBY on February 27, 2015 to promote the booth.

In 2015 at Ann Arbor’s Huron River Day in July HRWC hosted a stream-monitoring demonstration and watershed education booth for children and families. Participants from HRWC’s volunteer stream-monitoring program were on hand to show and tell macro-invertebrate indicator species, demonstrate monitoring equipment and recruit volunteers for HRWC’s October River RoundUp. Participating communities from the Middle Huron also sponsored a stream simulation table educational exhibit from the University of Michigan’s Museum of Natural History. The activity provided children hands-on opportunities to explore how water flows, erosion, effects of flooding, the consequences of human activities on water quality, and much more.

Pittsfield Charter Township

The Public Safety Community Coordinator meets periodically with property owner Associations to discuss local resources. The Community Coordinator provides “Ours to Protect” brochures at all meetings he presents at.

Activity # 13: Community Partners for Clean Streams

The Community Partners for Clean Streams Program is a voluntary, cooperative effort between the Washtenaw County Water Resource Commissioner’s Office and Washtenaw County businesses, institutional landowners and multi-family residential complexes.

The goal of the program is to help identify practical, cost effective ways to protect Washtenaw County waterways through pollution prevention. CPCS is a cost-free initiative that provides information, technical advice and recognition to participants. There are currently over 110 partners involved in the program, a partner listing can be found online at www.ewashtenaw.org/cpcs.



Pittsfield Charter Township

Pittsfield Charter Township is a member of the Community Partners for Clean Streams program and also completed voluntary Pollution Prevention Inspection inspections at all facilities.

Activity #14: Pollution Prevention Inspections

Washtenaw County Pollution Prevention (P2) Inspections review chemical storage/handling practices, look for illicit connections, ensure compliance with relevant federal, state and local laws and provide a report and technical assistance where remediation is necessary. Washtenaw County Environmental Health offers P2 inspections at no cost to Phase II communities and agencies responsible for inspecting municipal facilities under Phase II requirements. During the reporting period, approximately 600 P2 inspections were conducted by the Washtenaw County Environmental Health Department. See http://www.ewashtenaw.org/government/departments/environmental_health/pollution_prevention.

Activity #15: Green Media

In collaboration with local partners (City of Ann Arbor, Eastern Michigan University), Washtenaw County uses the website www.ewashtenaw.org to bring environmental education to the public in a variety of forms. Information is distributed via newspaper articles, award-winning informational videos, monthly television shows, and weekly radio programs. The *Green Media* website was developed to serve as a single resource for the County's educational outreach efforts.

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/green_media/green_media.html.

"Issues of the Environment" Radio Show (WEMU – 89.1 FM)

The *Issues in the Environment* is a weekly radio program hosted by David Fair on WEMU. Every Wednesday morning the Washtenaw County Environmental Health Department introduces a special guest speaker. Some examples of the water quality related topics include: *Making Your Living Spaces Greener, Safer, And More Sustainable; Preventing Wet Basements; Swift Creek Improvements; Resolving To A More Sustainable 2015; Storm Water Management; Toxic Algae In Toledo's Water Supply; and Environmentally Responsible Boating.* A complete listing of program topics can be found online. See:

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/issues_of_environment.

"The Green Room" Radio & Television Show (WEMU – 89.1 FM: CTN – Channel 19)

The Green Room is a collaboration between the City of Ann Arbor's Community Television Network (CTN) and the Washtenaw County Environmental Health Division. Airing of each new episode begins on the second Tuesday of the month on Channel 19 and continues throughout the month typically following this schedule: Mondays 11:30 AM, Tuesdays 5 PM, Thursdays 11 AM, Fridays 5:30 PM, Saturdays 10:30 AM and Sundays 7 PM. The show is produced by Barbara Lucas and Tom Nagae. Through her work with the County, Barbara also co-produces a monthly *Green Room* radio show with WEMU 89.1FM. A variety of topics are covered each month, some examples during the reporting period include: *Michigan's Sugarbush, - Environmental considerations of the Maple Sugar Industry; Toxic Algae: An "All of Us" Issue; River Renaissance; Rain Gardens; "Green Restaurants; The Carbon Footprint of Water; and the River Through Time.* A complete listing of episodes and the topics covered can be found online. See:

TV:

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/green_media/greenroom/green_room_tv.

Radio:

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/green_media/greenroom/green_room_radio.

Additionally, a variety of environmental video projects have been produced by the Washtenaw County Environmental Health Department. Videos such as *Water Quality: It's in our Hands, Septic Systems and Water Quality,* and *Safe Disposal of Medications* are posted on the Washtenaw County website and can be viewed anytime:

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/green_media/green_media.html.

Activity #16: Environmental Excellence Awards

The Environmental Excellence Awards were held in April 2014 & 2015 in conjunction with the National Pollution Prevention Week. Winners are selected to receive an award in the following categories: Water Quality Protection, Waste Reduction & Recycling, and Pollution Prevention. The Overall Environmental Excellence winner must be an organization that excels in all three categories and participates in the Washtenaw County Community Partners for Clean Streams, WasteKnot and Pollution Prevention programs. For award winners in all three categories plus the overall winner (if applicable), see Table 1 below. Advertisement(s), press releases and website postings are used to recognize awards winners. See

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/environmental_excellence/envex.html.

Table 1: Environmental Excellence Winners for 2011 & 2012

	Overall Winner	Water Quality Protection	Waste Reduction & Recycling	Pollution Prevention
2013/2014	-	Ann Arbor District Library	Village Pharmacy II	Superior Materials
2015	St. Joseph Mercy – Ann Arbor	Ctr	Starr Valley Farms	Elastizell Corporation

Activity #17: Fats, Oils, and Grease and Litter Reduction

Series 9 in the Community Partners for Clean Streams program highlights proper disposal of fats, oils and grease (FOG). Food service educational materials are available to educate restaurants about FOG disposal and clean-up procedures. These packages include CPCS Series 9, a FOG brochure, and a FOG hauler listing. Additionally, there have been 540 page views to the FOG Information on the County website

(www.ewashtenaw.org/government/departments/environmental_health/food_safety/eh_fatsoilsgrease.html) during the reporting period. Customers are primarily directed to the electronic information rather than providing physical documents.

Pittsfield Charter Township

Pittsfield Charter Township has prepared website materials that provide information about best management practices to local businesses and residents. Annually, Pittsfield Charter Township provides secure document shredding service free of charge to local residents. The most recent event was September 26, 2015 where Pittsfield shredded 3,854 pounds. A total of 16,805 pounds were shredded and recycled in 2014. In-house, Pittsfield Township shredded 3,346 pounds during the January-August, 2015 period.

Pittsfield Charter Township conducted a Fats, Oils and Grease seminar for local food establishments on October 23, 2013. In conjunction with the Washtenaw County Environmental Health Department, the listing of Food Service Establishments in Pittsfield Charter Township

was also updated at this time. A seminar was prepared in conjunction with the Washtenaw County Water Resources Commissioner office and marketed via print, website announcements, and phone calls to all private and public facilities that prepare food in the township. The session was attended by eight (8) restaurants and a participants list is on file with the Washtenaw County Water Resource Commissioner's Office.

Pittsfield Charter Township adopted a revised Sewer Use Ordinance effective March 5, 2011. As part of that Ordinance, Pittsfield follows the Ypsilanti Community Utilities Authority (YCUA) Fats, Oils, and Grease policy. Pittsfield Charter Township adopted their new Utilities Ordinance in February 2015.

Activity #18: River Safe Homes Program

The River Safe Homes Program offers Washtenaw County residents online, user-friendly water quality protection information that is geared to homeowners. Participants take an online survey to assess how the pollution prevention activities they already do and pledge to do can protect and improve water quality around their homes. The topics covered in the survey include:

- Lawn Care
- Car Care
- Proper Pet Waste Disposal
- Household Hazardous Waste Disposal

Upon satisfactory completion of the survey, participants receive a "RiverSafe Home" plaque that may be displayed at home entrances. The purpose of the plaque is to inform visitors about the water quality protection activities and commitment made by the homeowners who live there. A hard copy RiverSafe Home booklet and survey are also available for residents who do not have internet access.

During the reporting period, over 330 RiverSafe Home surveys were completed. Of that number, a majority represents participation by residents from the City of Ann Arbor who partnered with the WCWRC's Office by way of the City of Ann Arbor Stormwater Rebate Program. Since the program kick-off in 2007 membership in the RiverSafe Home program has grown to approximately 2,600 members.

Activity #19: Other Public Education Activities Related Specifically to E. coli and phosphorus TMDLs

HRWC promoted the Middle Huron partnership's efforts to reduce phosphorus by featuring program achievements in a large poster display to 350 guests at its annual fundraising events Suds on the River, 2014. Efforts presented included work to develop stronger soil erosion controls for construction projects, enact ordinances that protect shoreline plant buffers and that restrict the use of phosphorus fertilizer on lawns, restore unstable and eroding stream banks, protect wetlands and natural areas, and build stormwater systems using Green Infrastructure techniques to hold and infiltrate polluted runoff.



Additionally HRWC regularly publishes articles in its quarterly newsletter the Huron River Report (circulation 2,200) that features issues related to E. coli and phosphorus TMDLs. Articles during the reporting period included the following:

- “Green and Clean, Understanding “Green Infrastructure” (Spring 2014);
- “Ford Lake’s Legacy, The mixed history of the impoundment” (Summer 2014);
- Green Infrastructure Innovation, Coming soon to a neighborhood near you” (Fall 2014);
- “Toxic Bacteria Impacts Lake Erie Communities, Harmful algal blooms and their connection to the Huron River watershed” (Winter 2014);
- “Middle Huron Progress, Investments yield results” (Summer 2015)

Related blog posts at www.hrwc.org include:

- “The Power of Water,” July 20, 2015;
- “Rainy and warm? The forecast for a toxic algal bloom,” September 25, 2014;
- “Toxic Algae Blooms in Lake Erie,” August 11, 2014;
- “2014 Leaves the Huron Nutrient Story Complicated,” December 24, 2014; and
- Regular coverage of phosphorus current events in, “News To Us” a monthly blog post and e-mail to 5,500+ recipients of curated news content.

Pittsfield Charter Township

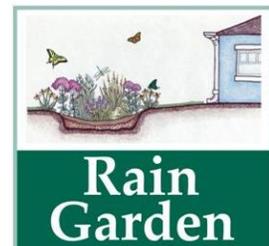
Pittsfield Charter Township actively promotes the use of soil testing through announcements on the homepage of its website, <http://www.pittsfield-mi.gov>, including Pittsfield’s Lawn Fertilizer Ordinance (in effect for 6 years) and a new State Law that prohibits applying fertilizer containing phosphorus that took effect January 1, 2012.

Pittsfield Charter Township continues to utilize a Fertilizer Application Registration form to track the sales and application of fertilizer. Those selling and applying fertilizer must register annually with Pittsfield Charter Township.

Activity #20: Residential Rain Garden Program

Since 2005 more than 208 rain gardens have been designed and installed at residential, church, and institutional properties through this program. In 2015 (through June) 24 new gardens were constructed. In 2014, 35 new gardens were constructed. The project was initiated as a Clean Water Act 319 grant but has since been funded by both the County and the City of Ann Arbor. An average of 10 gardens are constructed each year through the Rain Garden Assistance Program, and an average of 19 built through the Master Rain Gardener training program. In the assistance program, design and one-on-one assistance with construction are provided. Master Rain Gardeners are trained to design and build rain gardens, and to serve as neighborhood educators. Gardeners are responsible for all material costs and construction. See:

http://www.ewashtenaw.org/government/drain_commissioner/dc_webWaterQuality/rain-gardens



The Master Rain Gardener class was developed in 2010 and first taught in 2011 as a formal train-the-trainer class. In cooperation with MSU Extension and the City of Ann Arbor, the first annual Washtenaw County Master Rain Gardener class was offered the spring of 2011, and each year subsequently. The class focuses on developing a volunteer corps of residents who can design and build rain gardens and can then spread practical knowledge and assist others in their community.

Results of Master Rain Gardener class:

Year	Residents Trained as MRG	Rain Gardens
2013	25	18
2014	38	21
2015	101	24

The County offers materials and opportunities to enable Master Rain Gardeners to act as neighborhood educators. Rain Garden props prompt neighbors to ask questions, providing an opportunity for a productive discussion about landscape practices. These props include interpretive signage (developed in 2008), t-shirts (developed in 2014), nametags (developed in 2012), and certificates. So far in 2015, 130 t-shirts, and 14 signs were distributed.

Master Rain Gardeners have begun to take on leadership of maintenance of public rain gardens, the most prominent being the Miller Avenue rain gardens in Ann Arbor. An orientation and two workdays were planned through the program, and the rain gardens have thrived, serving as an attractive “poster child” for green infrastructure. Neighbors and Master Rain Gardeners have turned out for a total of 250 volunteer hours, and the gardens survived two very snowy, salty winters. Other rain garden maintenance work has included rain gardens in three City of Ann Arbor parks, and two Ann Arbor Public Schools rain gardens. These maintenance projects were spearheaded by Master Rain Gardeners themselves, and totaled more than 155 volunteer hours.

Master Rain Gardeners continue to volunteer to do outreach - promoting rain gardens. Thirteen public presentations at community groups regarding rain gardens were given by a Master Rain Gardener trained through our program. One rain garden, designed by a Master Rain Gardener, was included in a public garden tour: the Ann Arbor Farm and Garden Silver Jubilee Walk 2015. Two articles were written by Master Rain Gardeners in local publications. Rain Garden staff participated in interviews, resulting in two TV appearances and one news article: CTN, WRBO Street Beat, and the Ann Arbor Observer.

In 2015, the Rain Garden Leadership Awards were established, in partnership with the Environmental Excellence program. Ten awards were given in the categories of Demonstration, Education, Public Stewardship, Condominiums, and Schools.

Activity #21: Washtenaw County Home Toxics Reduction Program

The Washtenaw County Home Toxics Reduction Program has a permanent facility at 705 N. Zeeb Road that accepts household hazardous waste from the citizens of Washtenaw County. Examples of the household hazardous waste (HHW) materials that are accepted include: paints, aerosols, cleaners, motor oil, cooking oils (vegetable, canola, olive, etc.), pesticides, herbicides,

fertilizers, paint thinner, solvents, varnishes, wood preservatives, mercury, fluorescent light bulbs, and home repair products. A complete listing of the acceptable and non-acceptable items can be found on our website at <http://recycle.ewashtenaw.org/>.

Collection facility hours of operation take place the first 3 Saturdays of the month from 9:00 am until noon beginning in April and ending in November. Collection during the winter months (December-March) is available by appointment. Appointments are also scheduled for those citizens unable to use the facility during regularly scheduled hours. The Home Toxics Reduction Program collected 765,958 pounds of household hazardous wastes in 2013 and 2014 combined (see table 3 below). Since 1995, *over 3 million pounds* of HHW has been collected through this program.

Table 3: Household Hazardous Waste (HHW) Collected

	HHW Volume Collected
2013	299,025 pounds
2014	466,933 pounds
TOTAL	765,958 pounds

Waste Knot Program

The Waste Knot Program works to develop relationships within the Washtenaw County business community to increase waste reduction and recycling activities. The program provides community-wide recognition and organization-based technical assistance along with value-added education to organizations that exhibit leadership in waste reduction and recycling or to organizations that desire to become leaders in waste reduction and recycling. Currently there are 317 businesses participating in the program.



For more information, please visit the Waste Knot Program website at http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/waste_knot.

County Clean-Up Day Events

Regional “Clean-up Day” Events

Clean-up day events are held in cooperation with the Washtenaw County Solid Waste Division, and local municipalities and universities. Collection day details are included in Table 4 below. Specific data on amount of household hazards waste collected and the number of attendees is available on the website:

2013:

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/solid-waste/solid-waste-program-report.

2014:

http://www.ewashtenaw.org/government/departments/environmental_health/recycling_home_toxics/solid-waste/2014-washtenaw-county-solid-waste-program-report.

Table 4: Bulk Collection Data from Special Household Hazardous Waste (HHW) Collection Event

Items Collected @ Special Events	HHW (lbs)	Electronic Waste (lbs)
Chelsea (2014)	39,722	33,302
Northfield (2014)	15,713	10,636
Saline (2014)	22,726	15,988
EMU (2014)	35,076	16,286
Saline (2014)	28,305	17,050
EMU (2013)	40,710	37,713
TOTALS	182,249	130,975

Pittsfield Charter Township

Pittsfield Township Cleanup Voucher Program

In 2013 Pittsfield Charter Township exchanged the annual Clean-up Day for a clean-up voucher program in order for recycling to be more convenient for residents. Each household in Pittsfield Charter Township is eligible to receive one clean-up voucher per year, good for dropping off recyclables at Recycle Ann Arbor, free of charge. Listed below are the current statistics of what have been recycled through the voucher program from January - December 2014 and January - August 2015.

Clean-up Voucher Data from January-December 2014 & January-August 2015

	2014	Jan – Aug 2015
Number of Vouchers Used	255	140
Tires	32	11
Keyboards, etc	23	8
Monitors	23	17
Printers/Scanners/Fax	34	20
TV Inches	1849	929
Fluorescent, CFL Bulbs	255	102
Propane tanks	14	8
Freon App	18	26
Sofas	11.5	10
Sofa Sleeper	1	3
Mattresses	24	20
General Waste (bag)	18	19
General Waste (cubic yd)	226.65	143.65
Yard Waste	55.7	14.5
Yard Waste (Bag)	1	1

Activity #22: Proper Disposal of Prescription Drugs and Personal Care Products/Pharmacy Drug Take-Back Program

The Medicine Take-Back Program consists of twelve (12) participating pharmacies that serve as collection points for the general public to take unused, expired or unwanted medicines for safe

disposal. Since 2008, over 9,300 pounds of medication has been collected and disposed of properly.

The County's website www.dontflushdrugs.com includes disposal locations and information on:

- [Pharmaceutical Take-Back Program](#)
- [Mail-In Programs](#)
- [Big Red Barrel Program](#)
- [Locations Around Michigan](#)
- [Medication and Personal Care Product Disposal Guidelines](#) (including our **4-min. VIDEO on proper disposal**)

Pittsfield Charter Township

Pittsfield Charter Township cooperatively provides available information from the Washtenaw County Water Resources Commissioner's office about the proper disposal of personal care and prescription drugs.

C. Illicit Discharge Elimination Plan (IDEP)

The IDEP section of our SWPPI was developed to prohibit and effectively eliminate illicit discharges (including the discharge of sanitary wastewater) to **Pittsfield Charter Township's** storm systems. Following is a summary of progress made toward IDEP implementation.

Required Element #1:

An ordinance or regulatory method for controlling discharges in the MS4:

Pittsfield Charter Township approved Ordinance 291, Chapter 36, on March 25, 2011, which regulates any discharge to the waters of the state within the township, or in any area under the jurisdiction of Pittsfield Township.

Required Element #2:

Identification of areas prioritized for field screening or other investigation:

No illicit discharges were reported in **Pittsfield Charter Township** in this cycle.

Required Element #3:

Procedures for eliminating illicit discharges, pursuing enforcement action, and a system to track the elimination status of illicit discharges and enforcement actions:

Pittsfield Charter Township authorizes the Code Enforcement Officer, working in tandem with Department of Public Safety staff to track the reporting, elimination status, and enforcement actions (penalty provided by Ordinance) related to illicit discharges.

Required Element #4:

A program to train staff:

Pittsfield Charter Township requires training of all new staff and refresher training for existing staff every three years. The training must include at least the following: (1) the definition of illicit discharges and connections, (2) techniques for finding illicit discharges, (3) methods for eliminating illicit discharges and the proper enforcement procedures, and (4) a training schedule for training during the permit term. Two employees completed the Basic/Advanced

Investigation Illicit Discharge Training on September 24, 2014 conducted by the Wayne County Illicit Discharge Elimination Program. The next IDEP class is scheduled for September 30, 2015.

Required Element #5:

A method for determining the effectiveness of illicit discharge elimination activities:

Pittsfield Charter Township's Stormwater Management Committee meets on a quarterly basis to review the status of the Best Management Practices of the Stormwater Management Plan, including evaluating the effectiveness of illicit discharge elimination activities. In 2012, a Stormwater Pollution Prevention brochure was created to be distributed to Home Owner Associations and residents in Pittsfield Charter Township.

Onsite Well and Septic Inspection at Point of Property Transfer

The Washtenaw County Board of Commissioners adopted the Regulation for Onsite Well and Sewage Disposal System Inspection at the Time of Property Transfer in June of 1999.

During the reporting period, 2,104 Point of Property Transfer (time of sale) inspections were performed on well and septic systems county-wide by the Washtenaw County Environmental Health Division. Of that number, 1,807 inspections were for septic systems. The WCEH sent denial notices to 255 homes (approximately 14%) which were found to be in an unacceptable condition.

In order to comply with the time of sale requirements, 156 corrective actions were taken at homes allowing WCEH to issue a time of sale authorization letter.

D. Post-Construction Stormwater Control for New Developments and Redevelopment Projects

Pittsfield Charter Township designates the Municipal Services Department to be the municipal enforcing agency responsible for the administration and enforcement, within Pittsfield Charter Township, of Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (PART 91), as delineated in the Code of Ordinances, Chapters 8 and 12.

Pittsfield Charter Township is currently operating under a jurisdictional permit. The Township is responsible for post-construction for township-owned properties with outflows to the waters of the state.

Pittsfield Charter Township Master Plan

The 2010 Pittsfield Charter Township Master Plan has continued to provide a strong vision for stormwater management in the Township. The Master Plan highlights a number of low impact stormwater management techniques, including preservation of natural features, bioswales, green roofs and permeable pavement that can be used throughout the Township, especially at the nodes of mixed-use development highlighted in the Plan. The Master Plan also notes the work of the Township's Stormwater Management Committee in its Pittsfield Gone Green section, which further highlights innovative approaches to stormwater management. Lastly, one of the goals

included in the Plan is the protection of the Township's water resources. This goal specifies effective stormwater management as one of the ways that water resources can be protected.

Pittsfield Charter Township is currently beginning the process of updating the existing 2010 Master Plan. The Plan update will extend a vision for the Township five years into the future, and as such will be called the 2020 Vision for Pittsfield Township. The Township will look to place a continued emphasis on effective stormwater management and a new emphasis on resiliency in the new document.

The Pittsfield Charter Township Master Plan recommends the usage of the "Low Impact Development Manual for Michigan", a joint project by MDEQ and SEMCOG, to promote low impact development (LID) techniques for stormwater management systems.

In addition, best management practices in relation to land use and stormwater purification are part of the Pittsfield's Master Plan.

Rules of the Washtenaw County Water Resource Commissioner (Rules)

The *Rules of the Washtenaw County Water Resource Commissioner* outline procedures and design criteria for stream channel protection, stormwater quality management, flood control, detention pond design and other best management practices. The current version of the *Rules* is supported by Pittsfield Charter Township.

E. Construction Stormwater Runoff Control

To control wet weather discharges from construction activities, Pittsfield Charter Township has developed procedures to minimize soil erosion and control runoff from construction sites. Progress toward implementation of construction stormwater runoff controls is below.

Soil Erosion and Sedimentation Control

Washtenaw County is mandated by the State of Michigan's Department of Environmental Quality's, Part 91 Soil Erosion & Sedimentation Control of the Natural Resources and Environmental Protection Act, Act 451 of the Public Acts of 1994, for administration and enforcement. The Washtenaw County Board of Commissioner has adopted the aforementioned Act and rules promulgated under the Act within the County's SESC Ordinance and administers it to twelve jurisdictions. The Washtenaw County Water Resource Commissioner Authorized Public Agency (APA) program was audited in October 2010 and subsequently approved.

The purpose of Washtenaw County's SESC Program is to manage soil erosion and subsequent sedimentation in order to promote the safety, public health and general welfare of the community through effectively sustaining the goal of clean water in Washtenaw County and the State of Michigan

The Washtenaw County Water Resources Commissioner's Office regulates earth moving activities for all of Washtenaw County **except** City of Ann Arbor, Ann Arbor Township, City of Chelsea, Bridgewater Township, Dexter Township, Freedom Township, Lima Township, Lyndon Township, Manchester Township, Pittsfield Charter Township, Sharon Township, Sylvan Township, Ypsilanti Township, and the Village of Manchester.

Table 7: Washtenaw County Soil Erosion & Sedimentation Control Program Data

	2013 (Jul-Dec)	2014	2015 (Jan-June)	TOTALS
Applications Received	192	383	257	832
Plan Reviews	255	458	290	1,003
SESC Permits Issued	205	375	232	812
Maintenance Inspections	410	1,455	762	2,627
Final Inspections	176	353	68	597
Complaints/Investigations/ Stop Work Orders	11	80	19	110

The Washtenaw County Soil Erosion and Sedimentation Control Ordinance can be found online at: http://www.ewashtenaw.org/government/drain_commissioner/dc_websoilerosion/sesc-ordinance-2011.pdf

The most recent soil erosion and sedimentation control guide and permit fee schedule and soil erosion permit application can be found online: http://www.ewashtenaw.org/government/drain_commissioner/dc_websoilerosion

Pittsfield Charter Township designates the Municipal Services Department to be the municipal enforcing agency responsible for the administration and enforcement, within Pittsfield Charter Township, of Part 91, Soil Erosion and Sedimentation Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (PART 91), as delineated in the Code of Ordinances, Chapters 8 and 12. The following is a summary of activity in the township.

	September 2013 – August 2015
Applications Received	28 [2013: 7, 2014: 15, 2015: 6]
Plan Reviews	28
SESC Permits Issued	28
Maintenance Inspections	672
Final Inspections	18
Stop Works Orders	1

F. Pollution Prevention and Good Housekeeping

A set of training and maintenance activities is required for MS4 municipal operations, under the permit, to control pollution from municipal operations. **Pittsfield Charter Township** has fulfilled these requirements by implementing the following activities.

- Two employees completed the Basic/Advanced Investigation Illicit Discharge Training on July 24, 2014 conducted by Wayne County Illicit Discharge Elimination Program.

G. Other Activities

Pittsfield Charter Township received a \$1,475,000.00 Stormwater, Asset Management and Wastewater (SAW) grant from the Michigan Department of Environmental Quality (MDEQ) to institute a more robust Asset Management Plan for its sanitary sewer system.

The Washtenaw County Water Resource Commission is a recipient of a Stormwater, Asset Management and Wastewater (SAW) grant from the Michigan Department of Environmental Quality (MDEQ) for the development of a Stormwater Asset Management plan. Pittsfield Charter Township will be working with WCWRC to develop an asset management plan as part of this grant.

II. Water Quality Data, Assessment and Stressor Update

Permittees within the Middle Huron River Watershed agreed to work with the HRWC to develop and conduct a water quality monitoring program to collect data and assess the water quality within the river and tributaries. There are five stormwater related TMDLs in the middle Huron River watershed. While the permit does not specifically require reporting on TMDLs, Pittsfield Charter Township and watershed partners have funded monitoring to determine progress toward meeting each TMDL. This monitoring program is also used determine status and trends of water quality within the middle Huron River watershed affected by stormwater discharges. HRWC submitted a plan for this monitoring as an appendix to SWPPIs submitted by permittees within the watershed. That plan was titled “Middle Huron Stormwater Plan for Addressing Total Maximum Daily Loads (TMDLs).”

Subsequently, HRWC had conducted water quality monitoring each year between April and September. They will report the results of this monitoring following the inclusion of results through September. Reports are available for 2001 through 2012 via the SAG website at <http://www.hrwc.org/middle-huron-sag/>.

Much of this data analysis was also included in the evaluation of four water quality impairments within the watershed. Based on this analysis and discussion with the SAG, implementation plans were developed and submitted to MDEQ for each of the following four TMDLs:

- Ford Lake and Belleville Lake – impaired for excessive phosphorus
- The Huron River between Argo and Geddes Dams – impaired for pathogens
- Malletts Creek – impaired for aquatic life and habitat
- Swift Run -- impaired for aquatic life and habitat

All plans are posted on the SAG website at <http://www.hrwc.org/middle-huron-sag/>.

In addition to those four impairments, a TMDL was also developed for Honey Creek (pathogens) in 2009. HRWC received funding, with support from the Middle Huron SAG to monitor and develop an implementation plan for that impairment in 2011-13. A report on the monitoring results is being finalized and a draft WMP is currently under review by MDEQ. Details and products on that project can be found at <http://www.hrwc.org/honey-creek/>. No additional watershed stressors beyond those listed above and others originally listed in the WMP have been identified.

III. Upcoming Activities and Changes

Pittsfield Charter Township upcoming activities:

- Continue to partner with the Washtenaw County Water Resource Commission to offer Fats, Oils, and Grease Seminars for area businesses.
- Continue to update the Pittsfield Charter Township website to reflect current happenings with stormwater, as well as advertise events for residents and business owners.
- Continue to partner with the Washtenaw County Water Resource Commission and the Huron River Watershed Committee to put on the Annual Homeowner’s Association Educational Seminar.

Pittsfield Charter Township Annual Budget

Summary of expenditures over the reporting time period & estimate of proposed budget for 2015.

	2013	2014	2015 (Budget)
Contractual Services (Permit Compliance)	\$	\$	\$
Huron River Watershed Council Dues	\$589.27	\$589.27	\$589.27
River Raisin Watershed Council Dues	\$1,269	\$1,269	\$1,269
Huron River Watershed Council: Middle Huron Watershed Initiative & Stormwater Advisory Group Services	\$2,298.50	\$2,300	\$2,407.50
HRWC: Washtenaw County Phase I & Phase II Permit Services	\$	\$	\$
State Of Michigan (DEQ)	\$	\$	\$500.00
Supplies & Transportation	\$	\$	\$
Total	\$4,156.77	\$4,58.77	\$4765.77

Additional inquiries regarding the Annual Stormwater Report of Pittsfield Charter Township may be addressed to Allan Hare, Stormwater Liaison, HareA@pittsfield-mi.gov.