

**MUNICIPAL STORMWATER NPDES PERMIT MI0053902
FISCAL YEAR 2024-2025 MID-YEAR REPORT
FOR
THE UNIVERSITY OF MICHIGAN**

**ANN ARBOR, DEARBORN & FLINT CAMPUSES
& OTHER REGULATED U-M PROPERTIES**

UPDATED PER THE REQUIREMENTS OF NATIONAL POLLUTANT DISCHARGE ELIMINATION
SYSTEM PERMIT (NPDES) FOR DISCHARGE OF STORMWATER TO SURFACE WATERS FROM A
MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

PREPARED BY:



**FACILITIES & OPERATIONS
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For clarification purposes, the following acronyms/definitions are used throughout this report:

<i>AEC</i>	UMAA Architecture, Engineering and Construction
<i>ARC</i>	Alliance of Rouge Communities
<i>BMPs</i>	Best Management Practices
<i>CARD</i>	Coalition for Action on Remediation of Dioxane
<i>CCRB</i>	Central Campus Recreation Building located on the UMAA campus
<i>CGS</i>	Custodial & Grounds Services
<i>City</i>	The City of Ann Arbor, Dearborn or Flint, as appropriate
<i>CSW</i>	Construction Stormwater Runoff Control
<i>DPS</i>	Department of Public Safety on the UMD and UMF campuses
<i>DPSS</i>	Division of Public Safety & Security on the UMAA campus
<i>EAAMC</i>	East Ann Arbor Medical Campus
<i>EGLE</i>	Michigan Department of Environment, Great Lakes, and Energy
<i>EIC</i>	The Environmental Interpretive Center on UMD campus
<i>EHS-AA</i>	Environment, Health & Safety Department – Ann Arbor
<i>EHS-D</i>	Environmental Health and Safety Department – Dearborn
<i>EHS-F</i>	Environment, Health, and Safety Department – Flint
<i>EP3</i>	Environmental Protection & Permitting Program within EHS-AA
<i>F&O</i>	Facilities and Operations
<i>FOTR</i>	Friends of the Rouge River
<i>FRWC</i>	Flint River Watershed Coalition
<i>GIS</i>	Geographical Information System
<i>HAZWOPER</i>	Hazardous Waste Operations and Emergency Response
<i>HMM</i>	Hazardous Materials Management within EHS-AA
<i>HRWC</i>	The Huron River Watershed Council
<i>HHW</i>	Household Hazardous Waste
<i>HVAC</i>	Heating, Ventilation, and Air Conditioning
<i>IDEP</i>	Illicit Discharge Elimination Program
<i>Illicit Connection</i>	A physical connection to the drainage system that 1) primarily conveys illicit discharges into the drainage system or 2) is not authorized or permitted by the local authority (where a local authority requires such authorization or permit).
<i>Illicit Discharge</i>	Any discharge or seepage that is not composed entirely of stormwater into the drainage system, except for discharges specified in Parts I.A.1.b. and c. of the permit. Illicit discharges include dumping of motor vehicle fluids, hazardous wastes, grass clippings, leaf litter, domestic animal wastes, litter or unauthorized discharges of sewage, industrial waste, food services wastes, or any other non-stormwater waste into the drain system.
<i>LTP</i>	Logistics, Transportation & Parking
<i>MHI</i>	Middle Huron Initiative
<i>MS4</i>	Municipal Separate Storm Sewer System

<i>MTESP</i>	Michigan Turfgrass Environmental Stewardship Program
<i>NPDES</i>	National Pollutant Discharge Elimination System
<i>NREPA</i>	State of Michigan Natural Resources Environmental Protection Act, Act 451
<i>OCS</i>	Office of Campus Sustainability associated with UMAA
<i>Outfall</i>	A discharge point from an MS4 directly to surface waters of the state
<i>P2</i>	Pollution Prevention
<i>P2/GH</i>	Pollution Prevention/Good Housekeeping for Municipal Operations
<i>PCSW</i>	Post-Construction Stormwater Control
<i>PEP</i>	Public Education Program
<i>Permit</i>	The NPDES Stormwater Permit Number MI0053902 issued by EGLE to the U-M, effective October 1, 2001
<i>PIP</i>	Public Involvement and Participation
<i>PIPP</i>	Pollution Incident Prevention Plan
<i>PPE</i>	Personal Protective Equipment
<i>PSA</i>	Public Service Announcement
<i>RCRA</i>	Resources Conservation and Recovery Act
<i>SEAS</i>	School for Environment and Sustainability (formally School for Natural Resources and Environment (SNRE))
<i>SEMCOG</i>	Southeast Michigan Council of Governments
<i>SESC</i>	Soil Erosion and Sedimentation Control
<i>SPCC</i>	Spill Prevention and Countermeasure Control
<i>SWMPP</i>	Stormwater Management Program Plan prepared for the Permit and approved by EGLE
<i>SWPPP</i>	Stormwater Pollution Prevention Plan
<i>TMDL</i>	Total Maximum Daily Load
<i>TSS</i>	Total Suspended Solids
<i>U-M</i>	The University of Michigan, Ann Arbor, Dearborn & Flint
<i>UMAA</i>	The University of Michigan Ann Arbor Campus
<i>UMD</i>	The University of Michigan Dearborn Campus
<i>UMF</i>	The University of Michigan Flint Campus
<i>UMPD</i>	U-M Police Department, within the U-M Division of Public Safety and Security
<i>University</i>	The University of Michigan, Ann Arbor, Dearborn & Flint
<i>US EPA</i>	The United States Environmental Protection Agency

THE UNIVERSITY OF MICHIGAN
MUNICIPAL STORMWATER NPDES PERMIT MI0053902
FISCAL YEAR 2024-2025 MID-YEAR REPORT

In accordance with Part I, Section C.1.c of National Pollutant Discharge Elimination System (NPDES) Permit MI0053902, the University of Michigan (University; U-M) is required to submit a mid-year report describing the status of compliance with permit conditions associated with the stormwater management program. This program is a requirement of the NPDES Permit issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) Surface Water Quality Division on October 1, 2001. This report covers the period July 1, 2024 through December 31, 2024, and follows the format identified in the permit.

1) Compliance Assessment

a) Describe the status of compliance with permit conditions.

The U-M is in compliance with the Stormwater Management Program Plan (SWMPP) for the Ann Arbor (UMAA), Dearborn (UMD), and Flint (UMF) campuses, as revised in May 2010, and approved by EGLE on June 2, 2010. The University is also continuing to implement the EGLE approved post-construction stormwater management requirements outlined in the Stormwater Management – Post-Construction Requirements Guideline (EP3-001) located on the Environment, Health & Safety Department in Ann Arbor (EHS-AA) website. On May 28, 2013, U-M submitted a Phase II permit renewal application to EGLE in accordance with the notification from EGLE dated February 5, 2013, and provided additional requested updates to EGLE on May 28, 2015. On January 12, 2021, EGLE provided comments to this information and requested additional updates which were provided to EGLE on April 12, 2021. For the purposes of this report, please note that EHS-AA is associated with UMMA, the Environmental Health and Safety Department in Dearborn (EHS-D) is associated with UMD, and the Environment, Health, and Safety Department in Flint (EHS-F) is associated with UMF.

b) Provide a report of illicit discharges and illicit connections removed.

There were zero cross connections and two illicit discharges identified during this reporting period.

Illicit Discharges:

There were two illicit discharges identified during this reporting period:

- EHS-AA staff received a report on Wednesday, July 17, 2024, that on Tuesday, July 16, 2024, MDining staff accidentally spilled fry oil while disposing of the material at the dock of the Postma Family Clubhouse. Approximately 2.5 gallons were spilled onto the ground and approximately one (1) gallon entered a nearby storm drain. Environmental Protection and Permitting (EP3) staff were notified and responded to the site. Oil-Dri was applied to the area around the drain, ground underfoot, and collected for proper disposal. The storm sewer system was inspected further and oil was present in a downstream water quality device. A boom was placed into the device and left for later collection and proper disposal. No fry oil left the water quality device or entered a water of the State.
- On November 22, 2024, a Grounds vehicle leaked hydraulic oil on a sidewalk, leading towards the main "Diag" area. Oil-Dri was applied to the affected area and EHS-AA was contacted for assistance. EHS-AA applied additional Oil-Dri and ground in, swept up and removed it for proper disposal. A small quantity of oil had entered the storm drain near the base of the flagpole. EP3 was contacted and responded. Absorbent pads were placed in the catch basin to absorb the oil. The pads were then removed and collected for proper disposal. The hydraulic oil did not migrate further downstream of the original storm drain and did not enter a water of the State.

- U-M Ann Arbor - North Campus Facility Services (previously reported) – On June 25, 2018, the HRWC discovered a trickle (estimated at <3 gallons per hour) of water with elevated conductivity emanating from one of our outfalls (O-83) located on North Campus and discharging to Millers Creek. U-M began an investigation, including dye testing at adjacent buildings and televising the storm system and underdrains connected to this outfall. No illicit connections were found. We continue to monitor and investigate the possible source.

*Please note, there are other locations within the eastern branch of Millers Creek that are also experiencing high concentrations of chloride and conductivity. Please see Page 12 of the April 2021 Michigan AIPG publication “Geologically Speaking” for additional information.

<http://mi.aipg.org/newsletters/pdf/2021%20Q2%20MI%20Newsletter.pdf>

Cross-Connections:

Dye testing was completed during this reporting period to evaluate and verify proper connections by UMAA at the following locations:

- Moore School of Music at Baits Dr, Northwest of Bonisteel Blvd on August 26, 2024
- Leinweber Building on Hayward Avenue on October 14, 2024

No cross connections were noted at the above locations.

c) Assess Best Management Practice Appropriateness and Progress toward Goals Identified in the SWMPP.

This section presents the progress made this reporting period toward meeting the measurable goals which were written in the SWMPP to support the program elements (e.g. Total Maximum Daily Loads, Public Education Program, Public Involvement and Participation, etc.). Each subsection below is prefaced with excerpted language from the SWMPP (*italicized*) followed by a table of measurable goals and the U-M activities, which help to meet the measurable goals. The table also indicates in which fiscal year actions were initiated to support a particular measurable goal and whether U-M is in compliance with that goal. Compliance presents in the form of a discrete set of activities that have previously been completed and reported or an on-going effort with activities that are updated in each report. Additional activities supporting a program element are also noted at the end of each subsection.

i. Total Maximum Daily Loads (TMDL)

The U-M participates in TMDL reduction efforts throughout the permit cycle for Total Phosphorus – Ford & Belleville Lakes; E.coli – Geddes Pond; Biota – Mallets Creek; E.coli – Rouge River; and Biota – Rouge River.

Table 1 presents the status of each TMDL activity, associated measurable goals as written in the SWMPP, and current or past activities supporting the measurable goals.

Table 1 Total Maximum Daily Load Activities

TMDL Activities Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
Review existing outfalls to identify major discharge points (\geq 36-inch conveyance) discharging directly to surface waters of the state within the portion of the TMDL.	FY 2011-2012 (Annual)	✓	✓	
By April 15, 2012, U-M will take samples of at least 50% of the major discharge points within the portion of the TMDL watershed in the urbanized area. At a minimum, these samples will be analyzed for the applicable TMDL parameter (E. coli or total phosphorus). The sampling results will be retained and reported in the second progress report.	FY 2011-2012 (Annual)	✓	✓	
By October 1, 2013, sampling results and other available information will be reviewed. A plan will be developed to reduce the discharge of the applicable TMDL parameter (E. coli or total phosphorus). These prioritized actions will be reported with implementation targeted during the 5-year permit cycle that begins 2013. <i>Note that as of the date of this report, U-M is still operating under the 2010 SWMPP.</i>	FY 2012-2013 (Annual)	✓	✓	
TMDL Activities				
U-M All Campuses				
<ul style="list-style-type: none"> U-M is aware of updated statewide TMDLs and will continue to work with local watershed groups to meet these goals as necessary. 				

U-M Ann Arbor

- EHS-AA staff met with Middle Huron Partnership members and EGLE staff on July 17, 2024 to discuss updates to the TMDL Implementation Plan during this reporting period.
- As previously reported, outfalls have been evaluated to determine if they are “major” discharge points (greater than 36 inches in diameter). A list of major outfalls is kept on file. UMAA has identified four major discharge points within TMDL reaches. O-47R (NC_OF-005) and O-41 discharge directly into Millers Creek. O-30R (NC_OF-001) and O-88R (NC_OF-003) discharge directly to the Huron River. Outfall O-41, previously reported, is no longer assessed by U-M as it is a City-owned outfall discharging to Millers Creek. Outfall O-41 is located south of Baxter Road and northwest of the Waste Management Facility and discharges to Millers Creek.
- As previously reported, UMAA conducted sampling and analysis of O-41 and O-47R (NC_OF-005) on March 30, 2012, for *E. coli* and total phosphorus. This represents 50% of the major discharges.
- As previously reported, based on the sampling results and an overall review of the SWMPP, the U-M has developed a plan to reduce the discharges of the applicable TMDL parameters. In an effort to maximize resources and minimize duplicate efforts, U-M is addressing TMDLs in a consistent manner as the HRWC and other area MS4s. HRWC has written a TMDL Implementation Plan for the Huron River Watershed MS4s in Washtenaw County. Aspects of that Implementation Plan are incorporated in the updated SWMPP as part of the NPDES Application for discharge of stormwater to surface waters from an MS4. Management activities addressing the specific TMDLs have been identified and prioritized in Appendix I of the SWMPP.

U-M Dearborn – Previously Reported

- UMD identified three major discharge points, two of which discharge directly into the Rouge River and one that discharges into the City of Dearborn’s storm line on Hubbard Drive.
- UMD conducted sampling and analysis on all identified major discharge points. Two discharge points were sampled on November 22, 2011, and the last discharge point was sampled on June 19, 2012.

U-M Flint – Previously Reported

- The Flint River is now included in the statewide *E. coli* TMDL. UMF will continue to work with local watershed groups to address these goals.

ii. Public Education Program (PEP) – Education and Outreach on Stormwater Impacts

Recognizing the need for public involvement in the effort to reduce stormwater pollutants, the U-M has developed a broad and aggressive stormwater education and outreach program. This multi-faceted program is closely connected to the U-M's pollution prevention (P2) program and its many initiatives. Specifically, the stormwater education curriculum is designed to promote, publicize, and facilitate watershed education while encouraging the P2 practices developed under the U-M's environmental stewardship agenda. The intended audience for the program is all persons associated with the University who could potentially affect the quality of stormwater discharges, including, but not limited to: campus residents; University faculty, staff, and students; visitors to the campus; contractors and vendors working on the campus; and commercial and industrial operations on campus. U-M's overall goal for the PEP is to bring awareness of stormwater issues to 70% of the University community by the end of 2013. Levels of stormwater awareness are anticipated to vary widely among the different community groups, with more emphasis given to key staff having greater potential to impact stormwater quality during their day-to-day work activities. The remainder of the University community is targeted through other means, such as brochures, posters, websites, storm drain markers, PSAs, etc.

The following is a description of each of the public education topics identified in the permit, to be included as appropriate, based on the potential impact on the receiving waters:

- Educate the public of hazards associated with illicit discharges and improper disposal of waste. Part of this education is to encourage public reporting of the presence of illicit discharges or improper disposal of materials into the U-M drainage system.*
- Educate the public concerning the water body that would be potentially impacted by improper actions at or near a person's home.*
- Educate the public on the availability, location and requirements for household hazardous waste disposal, travel trailer sanitary wastes, chemicals, grass clippings, leaf litter, animal wastes and motor vehicle fluids.*
- Educate the public regarding acceptable application and disposal of pesticides, herbicides, and fertilizers, including the use of phosphorus-free fertilizer alternatives, as appropriate.*
- Educate the public on preferred car cleaning agents and procedures for noncommercial car washing.*
- Educate property owners with a septic system on proper maintenance and how to recognize system failure.*
- Educate riparian landowners of management of lands to protect water quality.*
- Educate the public about their responsibilities and stewardship of their watershed.*
- Educate the public on the benefits of using native vegetation instead of non-native vegetation.*
- Educate commercial and institutional entities likely to have significant stormwater impacts. (At a minimum, commercial food services shall be educated to prevent grease and litter discharges to the MS4).*

Table 2 presents the status of each public education program activity, associated measurable goals as written in the SWMPP, and current activities supporting the measurable goals. Table 3 includes activities that go beyond the expectations of the original measurable goals.

Table 2 Public Education Program Activities

PEP-1 Stormwater Education Brochures				
<p><i>In cooperation with the U-M School for Environment and Sustainability (SEAS), EHS-AA developed a series of brochures to assist various members of the University community in preventing stormwater pollution on campus. The brochures have been designed to meet the overall program objectives for specific audiences.</i></p> <p>Over the years, the stormwater public education program has evolved and grown. The program has largely converted the educational content from paper brochure format to digital posters in an effort to reduce paper waste and align with the University’s sustainability goals. The digital posters use the messages and content from the original brochures. The target audience remains students, faculty, staff, and visitors.</p>				
PEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
A minimum of 1,800 brochures will be distributed annually during presentations, training courses and new employee orientation sessions. The quantity of brochures distributed throughout the year will be tracked.	FY 2009-2010 (annual)	✓	✓	✓
In 2010-2011, develop/add additional brochures to fill any gaps in the topics needed to meet the permit requirements. Keep a copy of newly developed/added brochures with dates finalized.	FY 2011-2012 (mid-year)	✓	✓	
In 2011-2012, create a dissemination strategy to reach the target audiences and any new audiences identified by U-M. Identify educational information available/developed for each target audience applicable at U-M and keep this information on file.	FY 2011-2012 (annual)	✓	✓	
In 2012-2013, implement the new dissemination strategy/plan for educational brochures. Tally the number of brochures distributed and provide in the annual reports.	FY 2012-2013 (annual)	✓	✓	
PEP-1 Activities				
U-M Ann Arbor				
<ul style="list-style-type: none"> In an effort to reduce paper waste and be more sustainable, EHS-AA has moved away from paper brochures and is implementing electronic distribution of materials. EHS-AA continues to post the stormwater digital display; titled “Keep our Michigan Waters BLUE!” which explains what stormwater runoff is and why it can pose a threat to surface waters. The digital display was exhibited on flat screen televisions located within the Shapiro Undergraduate Library and the Hatcher Graduate Library from September 9-16, 2024 and December 9-16, 2024. The digital display was also posted in the lobbies of 18 residence halls and associated dining halls for the entire fall semester. The digital display is scheduled to be posted again at the libraries, residence halls, and dining halls during the spring semester. The stormwater digital poster was displayed on the EHS kiosk between October 1, 2024 and December 31, 2024. 				

- EHS-AA continues to work with U-M football stadium vendors/concession stands to prevent potential discharges into the stormwater system. Concession stands were posted with signage detailing procedures for proper grease and wastewater management for these operations during the 2024 football season to reinforce proper waste management for these temporary operations. Forty-five (45) signs were provided for posting.
- U-M's Graham Sustainability Institute no longer actively distributes the 2014-2015 Sustainability Guide. However, duplicative information can be found on the Planet Blue website (sustainability.umich.edu). During this reporting period, the Planet Blue homepage received approximately 5,584 unique views.
- There were 36 unique views of the online visual story of stormwater management on campus during this reporting report. There have been a total of 1,639 views of the story since its posting in July 2018. The online visual story was a collaboration between UMAA's Office of Campus Sustainability (OCS), EHS-AA, and Architecture, Engineering and Construction (AEC). The visual story is located here: <https://ocs.umich.edu/university-of-michigan-storm-water-management-highlights/>
- As a community partner of the Huron River Watershed Council, UMAA supported the distribution of the 2025 Huron River Watershed Community Calendar. The 2025 calendar is a collaborative effort to educate communities about the importance of water stewardship and nonpoint source pollution prevention. In all, the HRWC and its partners distributed over 50,000 2025 calendars to residents, staff, volunteers, constituents, and members of the watershed community. EHS-AA distributed 300 calendars to staff and campus visitors through meetings, trainings, and placement in publicly accessible locations.
- U-M social media accounts continue to be a valuable outlet for water quality education on campus. During this reporting period, two (2) posts were displayed on the University of Michigan's X (Twitter) account and three (3) posts were displayed on the University's LinkedIn account. Below, Figure 1 depicts a typical X (Twitter) posting that includes moving water in the background.



Figure 1 X (Twitter) post on September 5, 2024.

- On September 26, 2024, EHS-AA participated in U-M's annual Earthfest by hosting a table on stormwater management on the U-M campus. The function of pervious pavement was demonstrated at the booth along with an information display providing stormwater education and copies of our Stormwater Management Summary Sheets describing best management practices installed on campus to manage stormwater runoff. A loop of the EHS stormwater educational video was also played at the table.
 - The event is organized around the four themes of U-M's Campus Sustainability Goals: Climate Action, Waste Prevention, Healthy Environments, and Community Awareness. U-M student organizations, U-M departments, and community groups focused on sustainability promote their work on campus and in the greater university community. EarthFest is designed to engage, entertain, and educate U-M students, faculty, and staff on all aspects of sustainability.

U-M Dearborn

- EHS-D continues to pass out six different pamphlets related to stormwater at all training events, orientations, and other various campus events. This packet provides general stormwater awareness to the campus with additional tips on how to handle household hazardous waste and pet waste as well as information on fertilizers, pesticides, paints, and vehicle maintenance. One of the pamphlets is passed out to contractors titled "Stormwater: A Shared Responsibility" which provides a brief overview of how stormwater is discharged from campus and some best management practices for the various types of contractors (food services, custodial services, construction contractors, etc.) to use while working on campus.

- EHS-D continues to distribute Alliance for Rouge Communities (ARC) jar openers to campus community members. The jar opener has tips for “Healthy Habits to Protect the Rouge River Watershed” and is made out of recycled tires.
- EHS-D continues to distribute ARC pet waste bags to faculty and staff during select events (e.g., Staff Meetings) that can be attached to a leash or collar. The theme, “In the Bag-Not the River” is embossed on the container.

U-M Flint

- EHS-F maintains and updates a bulletin board in the Facilities & Operations common break area within the Hubbard Building to promote aspects of stormwater management/BMPs. Additionally, a display case is located at the Harrison Parking ramp in the center of campus near a high traffic/pedestrian walkway (Figure 2). The overall theme of the display is “ONLY RAIN IN THE DRAIN” and “ALL Storm Drains lead to the Flint River” highlighting many BMPs for home and work.



Figure 2 Display case at the Harrison Parking ramp was updated in December 2023.

- EHS-F posts a Stormwater Reference Sheet for Contractors on the EHS-F website as a tool to educate contractors and project managers about stormwater management and the protection of drains and surface water.
- EHS-Flint previously updated the Stormwater Management website during the fall 2023 semester. Updates included: new videos added, updated links, and additional useful BMPs for work and home. Tips were also added on how to get involved locally.

- EHS-Flint updated the “Earth Day, Every Day” bookmarks for distribution to provide several tips on how to protect the Flint River Watershed.
- EHS-F participates in campus-wide student events, like the September MGagement Fair, where students are welcomed back to campus at the beginning of the fall term. EHS-F has a table to engage students and staff in conversations about environmental issues including the Flint watershed, protection of our waterways and natural environment (Figure 3).



Figure 3 EHS-F table at the MGagement Fair, September 2024.

PEP-2 EHS/SEAS Websites

Developed in cooperation with the U-M SEAS and maintained by EHS-AA, the Stormwater Education Website builds upon the information contained in the brochures and disseminates information to the general University community and the public at large. This website is intended to help students, employees, and visitors in the U-M community understand how the University's stormwater system operates, various legal requirements, and what individuals can do to reduce contamination in the stormwater system from surface runoff. As viewers move through the site they learn about stormwater, what they can do to help protect it, how regulations impact the University's operation, and various safe practices. The UMD and UMF websites also provide topical information for practices potentially impacting stormwater.

Stormwater website content is updated on a regular basis to include pertinent information related to stormwater management and pollution prevention.

Current material on the websites can be viewed via the following links:

UMAA: <http://ehs.umich.edu/environmental/water/stormwater/>
<https://ehs.umich.edu/construction-2/environmental-considerations/stormwater-management/>
<http://ehs.umich.edu/environmental/water/stormwater/storm-water-control-measures/>

UMD: <https://umdearborn.edu/environmental-health-and-safety/environmental-protection/storm-water>

UMF: <https://www.umflint.edu/ehs/stormwater-management/>

An additional website has been developed through the UMAA OCS and Planet Blue at <http://sustainability.umich.edu/>. Through Planet Blue, staff and students can become a Planet Blue Ambassador by completing modules. More information regarding the implementation of this program is outlined in the additional measures taken to achieve the PEP goals at the end of this section.

PEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
The number of visitors to the websites will be tracked annually for subsequent reporting. The goal is to have 2,000 website hits annually. This website is intended to help students, employees, and visitors in the U-M community understand how the University's stormwater system operates, various legal requirements, and what individuals can do to reduce contamination in the stormwater system from surface runoff. This website tally may also serve as an indication of the community seeking additional stormwater information from the link provided in the brochures, as detailed above.	FY 2004-2005 (annual)	✓	✓	✓
Review and update existing websites and perform periodic review. Print a copy of website changes made, noting the date of revision, etc. A copy of these changes will be kept on file.	FY 2009-2010 (annual)	✓	✓	✓
In 2010-2011, create a website information dissemination and coordination strategy (all campuses) to reach the target audiences. Identify educational information available/developed for each target audience applicable at U-M. This information will be kept on file.	FY 2011-2012 (mid-year)	✓	✓	
In 2011-2012, develop/add additional topics, web links, etc. to fill any gaps in the topics needed to meet the permit requirements. Print a copy of website changes made, noting the date of revision, etc. A copy of these changes will be kept on file.	FY 2011-2012 (annual)	✓	✓	
In 2012-2013, implement the new dissemination strategy/plan for the stormwater education website. The number of website hits will be tracked for reporting (above).	FY 2012-2013 (annual)	✓	✓	
PEP-2 Activities				
U-M Ann Arbor <ul style="list-style-type: none"> A QR code is provided on printed materials and digital posters, which can be scanned by smart phones to direct viewers to the EHS-AA stormwater website. The EHS-AA website was updated in December 2024. Minor content updates occurred only, but the changes did affect some web addresses and may impact how webpage visitors are tracked in the future. The EHS-AA stormwater web pages have received more than 19,000 unique hits from their inception on September 30, 2016 to December 31, 2024. <p>EHS-AA Stormwater Web Pages & Views this reporting period: http://ehs.umich.edu/environmental/water/stormwater/ (246 unique views) https://ehs.umich.edu/construction-2/environmental-considerations/stormwater-management/ (70 unique views) http://ehs.umich.edu/environmental/water/stormwater/storm-water-control-measures/ (309 unique views) <i>(The EHS website received updates during this reporting period and as of</i></p>				

December 16, 2024, this webpage no longer exists and has been absorbed by another page:
<http://ehs.umich.edu/environmental/water/stormwater/>)

- The 2023-2024 annual stormwater NPDES report was added to the EHS-AA website on November 25, 2024. <http://ehs.umich.edu/environmental/environmental-data-and-reports/>
- The interactive Google map of stormwater BMPs on campus received 30 views during this reporting period.

U-M Dearborn

- The UMD stormwater webpages received 1,312 unique views during the reporting period. The website provides the UMD campus community with information on how the stormwater system operates, what the laws require, and what can be done to reduce contamination in our storm system and ultimately, the Rouge River. The website offers links to various external organizations such as Friends of the Rouge (FOTR), Alliance of Rouge Communities (ARC), the Michigan Department of Environment, Lakes and Energy (EGLE), Southeast Michigan Council of Governments (SEMCOG), and Earth 911. The stormwater webpage also provides links to two stormwater awareness videos. <https://umdearborn.edu/environmental-health-and-safety/environmental-protection/storm-water>
- The UMD-EHS webpage is revised quarterly each year. Stormwater-related community events and information are displayed, as well as a seasonal “Protect Water Quality” poster (Figure 4).



PROTECT WATER QUALITY ALL SEASON LONG!

Rouge River Watershed



What is a Watershed?

We all live in a watershed - an area of land that drains to a common body of water, such as a lake, river or stream (and even groundwater). Understanding the watershed concept is important because it allows us to comprehend that we can have an impact on water quality far beyond our own back door.

Learn the Difference

What is Stormwater?

Stormwater is water that originates during rain events and snow/ice melt and travels over land or through storm drains, catch basins or pipes (called outfalls) and ends up untreated in our rivers, streams and lakes.

What is Wastewater?

Wastewater is water that has been used in the home, in a business, or as part of an industrial process and is treated before it is released back to the environment.



Plant a tree to provide a natural filter to the Rouge River and to reduce stormwater runoff, flooding and erosion.



Pour or scrape greasy or oily food waste into a container or jar before putting in the trash to prevent blockages in sewer pipes which can send sewage backward into homes or out of manholes into streets and the Rouge River.



Do not put "disposable wipes" down a drain or toilet, they do not dissolve and will cause blockages in sewer pipes.



Report illegal dumping to the Rouge River to your local municipality to prevent contamination to our groundwater supply.



When winterizing your pool, spa, or fountain allow the chlorine to dissipate for several days before draining it to a landscaped area not a storm drain which leads to the Rouge River.



Use non-toxic cleaning alternatives such as white vinegar, baking soda and hydrogen peroxide to reduce the amount of harmful chemicals entering the Rouge River.



Mulch your grass and leaves to use as a natural fertilizer which limits the excess nutrients from yard waste entering the Rouge River.



Attend a workshop on native landscaping or septic system maintenance to learn how you can protect the Rouge River or volunteer at a bug hunt or Rouge Rescue with Friends of the Rouge in your community.

The Alliance of Rouge Communities, or ARC, is a non-profit organization consisting of local municipalities, counties, educational institutions and stewardship groups working together to improve the Rouge River. The ARC is funded by membership dues from local governments and supported by grants. The ARC and its partners work cooperatively to meet water quality requirements mandated by the state's stormwater permit and to restore beneficial uses, such as canoeing, fishing and other recreational activities, to the Rouge River.



Alliance of Rouge Communities
OURS TO PROTECT
Working together, restoring the river

For more information visit: www.allianceofrougecommunities.com

Figure 4 An image of the "Protect Water Quality" poster.

U-M Flint

- EHS-F maintains a stormwater website which is available at the following link:
<https://www.umflint.edu/ehs/stormwater-management/>
The website provides a wide range of stormwater educational information including: UMF Program documents, defining our watershed and its link to the Flint River, encouraging protection of the Flint river, describing how to get involved in local initiatives, and more. The site also provides training videos for recognizing and reporting illicit discharges.
- Between July 1, 2024 and December 31, 2024 there were 75 page views of the EHS-F stormwater management webpage.
- EHS-F and Facilities & Operations maintain a website, located at:
<https://www.umflint.edu/facilities/contractor-guidelines/> to help contractors and project managers quickly locate environmental health and safety information. EHS-F also maintains a separate departmental link with reference materials and environmental programs for contractors, located at:
<https://www.umflint.edu/ehs/project-review/>
- The web links for the U-M construction safety requirements, stormwater management requirements, and SESC requirements are all incorporated into contractor bid specifications and contract documents. Additionally, a fact sheet specifically for contractors working on UMF campus is available.

PEP-3 Video & Public Service Announcements

The video 'Stormwater Management at the University of Michigan' provides viewers with an overview of stormwater issues as they pertain to University operations and activities. The video begins with an overview of the UMAA's stormwater drainage system and it's receiving bodies followed by a synopsis of the legal requirements that mandate the NPDES permit and the development of a stormwater management program. The remainder of the video focuses on how stormwater can become polluted because of human activities. It proceeds to inform viewers of the University's actions to protect stormwater quality in the following areas: salt use and deicing activities, waste management and spill response, campus planning and expansion, cleaning outdoor equipment and vehicles, chemical disposal practices, and food vendor training.

PEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
The number of offerings of stormwater videos will be tracked annually for subsequent reporting in the progress reports. A listing of available stormwater videos will be kept on file.	FY 2009-2010 (annual)	✓	✓	✓
Stormwater, waste disposal, and recycling related Public Service Announcements will be distributed annually for use during the Football season home games. These short educational messages will provide stormwater information to visitors, students, staff and contractors attending the U-M football games. The total anticipated audience for these messages is over 110,000 per game.	FY 2009-2010 (annual)	✓	✓	✓

PEP-3 Activities

U-M Ann Arbor

- An online stormwater educational video is available for viewing on the EHS-AA website. The video is used on an as-needed basis for inclusion in faculty and staff presentations, classes, workshops, etc. All new employees are sent a welcome email directing them to the online U-M stormwater educational video as well. The video had 823 unique views during this reporting period and is located here: <https://ehs.umich.edu/environmental/water/stormwater/>
- A digital message is displayed throughout the year on the 27-ft x 48-ft football stadium marquee located outside the stadium along Stadium Blvd., viewable by passing traffic and pedestrians roughly six times per hour. It also ran during seven home football games from September 2024 through November 2024 (up to 20 times per game) (Figure 5).
 - A message was also posted on the in-stadium digital boards approximately one hour before the game with one accompanying public service announcement (PSA) as noted below (Figure 6). The PSA was also announced at football entrance gates approximately 15 times per game. Attendance at each game is approximately 110,000 potentially reaching an audience of approximately 770,000 over the 2024 football season.

PSA: “Michigan fans help keep our Michigan waters BLUE by properly disposing of trash and recyclables! Did you know that outdoor drains found in parking lots and along roadways are directly connected to rivers, ponds, and lakes? Nothing but stormwater should ever be discharged into these storm drains. So do your part and help keep our Michigan waters BLUE!”



Figure 5 Stadium marquee daily message display.



Figure 6 In-stadium digital board message for football game days.

- Through the Planet Blue Ambassador program, students, faculty, and staff can complete the online training modules on different relevant topics (e.g., water). Individuals from every major school and unit on the Ann Arbor campuses (including most F&O units and the Health System) have participated. Approximately 10,419 students, faculty, and staff have been certified as Planet Blue Ambassadors since the January 2013 inception of the program. Five hundred fifty-five (555) people completed the Planet Blue Ambassador program during this reporting period. For the Water module portion of the Planet Blue Ambassador Training, students and staff are encouraged to make pledges including, but not limited to:
 - I will always properly dispose of extra household hazardous waste (HHW).
 - I will fix any oil or other automotive fluid leaks on my vehicle immediately.
 - I will wash my vehicle on a permeable surface or at a carwash that reuses water.
 - I will properly dispose of my extra medications and not flush them.[ALSO PART OF PEP-4 BELOW]

The videos may be viewed on YouTube at the following link:

https://www.youtube.com/playlist?list=PLkpBjHvzRryplN_ahL0_TQ7f4E12tFixN

- UMAA implements campus-wide recycling in all buildings and encourages proper management of waste whether one is on campus or at home. UMAA promotes and provides support with various 'Zero Waste' events to further promote the proper disposal of waste.

U-M Dearborn

- EHS-D created an online stormwater training course which is offered on the stormwater webpage. The training consists of a video and an 8-question quiz. Contractors working on U-M projects are the primary enrollee of the course. Over the reporting period, 28 contractors, students, and other community members completed the online training course.
<https://umdearborn.edu/offices/environmental-health-and-safety/environmental-protection/storm-water/storm-water-training-course> [ALSO PART OF PEP-4 BELOW]
- The exhibit area at the UM-Dearborn's Environmental Interpretive Center (EIC) is open to the public six days a week from 10 am until 5 pm. The exhibit area contains several interactive exhibits that allow the visitors to learn about various aspects of the Rouge River Watershed, water quality concerns and conservation efforts and practices. These exhibits are also used in our formal education programs

and university courses. The exhibits begin with an overview of the concept of a watershed and aerial photo of the Rouge River so visitors can get a perspective of the entire area of southeastern Michigan. The multi-media videos offer three, six-minute videos about the watershed, hydrologic cycle, and the problems facing the Rouge River. The exhibit area also houses several kiosks that encourage visitors to find ways to be a part of the solution with steps you can take at home to improve water quality.

- Ninety-one (91) students, faculty and staff were certified as Planet Blue Ambassadors during this reporting period. A total of 391 have completed the certification on the Dearborn campus.

UM-Flint

- UMF implements campus wide recycling in all buildings and encourages proper management of waste whether one is on campus or at home. UMF also provides PSA's promoting community household hazardous waste collection days in the spring and fall of each year through e-mails, posts on the EHS website, and printed materials. These are sent to all faculty, staff, and students (5,000+ individuals).
- UMF maintains a bulletin board in the Facilities & Operations common break area within the Hubbard Building to promote aspects of stormwater management/BMPs. Additionally, a public display case is located at the Harrison Parking ramp in the center of campus near a high traffic/pedestrian walkway. Stormwater information is displayed in this location with an overall theme of "ONLY RAIN IN THE DRAIN" and "ALL Storm Drains lead to the Flint River." This display was last updated in December 2023.
- One hundred and five (105) students, faculty, and staff were certified as Planet Blue Ambassadors during this reporting period. A total of 204 individuals have completed the certification on the Flint campus.

PEP-4 Presentations (training sessions, workshops, etc.)

Stormwater education presentations are provided to key staff having greater potential to impact stormwater quality during their day-to-day work. The remainder of the University community is targeted through other means. The presentations discuss the stormwater drainage system; the need for protecting the quality of stormwater discharges; the NPDES permit, its legal requirements, and the stormwater management program; and the most common stormwater pollutants and ways to limit their effects on stormwater. The presentations can also feature the stormwater video.

Stormwater education is provided during new employee orientation sessions (all employees at the U-M), new laboratory employee training classes and at new Facilities & Operations employee training classes. In addition, presentations including stormwater topics are provided on an annual basis to UMAA Facilities & Operations staff, which includes the following sub-groups:

- *Architecture, Engineering and Construction,*
- *Custodial & Grounds Services,*
- *Environment, Health, & Safety,*
- *Logistics, Transportation & Parking,*
- *Maintenance Auxiliaries & Central Shops,*
- *Maintenance Regions,*
- *Office of Campus Sustainability,*

<ul style="list-style-type: none"> • <i>Operational Support,</i> • <i>Real Estate Office, and</i> • <i>Utilities</i> 				
PEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
Stormwater topics will be included in a minimum of 50 classes, workshops, or presentations annually. The number of sessions including training on stormwater issues will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
A minimum of 500 laboratories will be inspected annually. The inspections will include a review of issues impacting stormwater quality, chemical storage, waste management and disposal. These inspections may also serve as an indicator of the effectiveness of stormwater education received, or the need for additional education. The number of inspections performed annually will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
All outdoor food vendors will receive training/education including related stormwater issues annually. Food establishment inspections will include items to ensure stormwater BMPs are being followed. These inspections may also serve as an indicator of the effectiveness of stormwater education received, or the need for additional education. The number of inspections performed will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
PEP-4 Activities				
U-M Ann Arbor				
<ul style="list-style-type: none"> • Contractors are provided information on construction site stormwater-related topics at kick-off meetings and then throughout the construction phase by the Part 91 SESC inspectors. The information provided covers stormwater regulations and SESC procedures and practices. • EHS-AA developed an online Stormwater Pollution Prevention Plan (SWPPP) training module for all applicable operational staff and facility managers at fleet maintenance and storage yards involved in the U-M SWPPP program. Over this reporting period, 37 U-M staff members completed the training. EHS-AA continues to use the online training module for refresher training of U-M staff members associated with SWPPP facilities. • EHS-AA developed a new online Spill Prevention, Control, and Countermeasure (SPCC) training to accommodate operational staff and facility managers at SPCC facilities. All appropriate staff are trained in the laws and regulations regarding spills, releases, and pollution control; the contents of SPCC; and the operation and maintenance of equipment to prevent discharges. Over this reporting period, 171 employees completed the training. 				

- EHS-AA held several on-line 8-hour Emergency Response Technician Refresher training sessions in December 2024 to provide updates to applicable facility staff and on-call Environment, Health & Safety staff that participate in emergency response activities. The training includes outdoor spill response and appropriate protocol to protect waterways. In all, 83 U-M staff attended the training sessions.
- Training on environmental considerations for construction projects is offered for U-M project managers. This includes stormwater management, spill prevention and response, soil erosion and sedimentation control, soil contamination, and material storage. One (1) individual attended the training during this reporting period.
- Stormwater topics were included in classes, workshops, or presentations during the reporting period. The number of classes, workshops, and presentations containing stormwater topics will be reported in the annual report. Examples of classes include: Stormwater Pollution Prevention Plan (SWPPP) training, SPCC training, Stormwater/SESC Awareness training, Laboratory Waste Disposal training, Housing New Employee Orientation, Grounds Annual Safety training, and Annual HAZWOPER Refresher training. Participants include staff from EHS-AA, Facilities & Operations staff, Athletics Dept., researchers, and other groups.
- The number of laboratories inspected will be reported in the annual report.
- As reported above, an online stormwater educational video is available for viewing on the EHS-AA website. The video is used on an as-needed basis for inclusion in faculty and staff presentations, classes, workshops, etc.
- A total of 95 inspections were performed by EHS-AA sanitarians on temporary food establishments between July 1, 2024 and December 31, 2024. This includes inspections at the U-M stadium for each of the seven home football games. The inspections include checking that the appropriate food safety signage was conspicuously displayed at each location. The signs indicate proper grease disposal and wastewater management tips. EHS-AA continues to work with U-M football stadium vendors/concession stands to prevent potential discharges into the stormwater system. EHS-AA plans to replace any missing signs ahead of the 2025 football season.

U-M Dearborn

- Six hundred and two (602) students, staff, and faculty participated in our online laboratory safety training, which includes stormwater-specific training.
- UMD conducted a total of 29 lab inspections during this reporting period.
- In addition to the routine area inspections related to the SWPPP and SPCC programs, EHS-D conducted 26 Hazardous Waste -Central Accumulation Area (CCA) inspections during the reporting period.
- Food service establishments on campus are inspected on a weekly basis to ensure that waste management practices are being maintained and that no grease or food waste is entering or impacting storm drains.

U-M Flint

- Stormwater and spill prevention related topics were included in many online courses and presentations during the reporting period: Ten (10) individuals completed the “Stormwater Pollution Prevention” course, nine (9) individuals completed the “Spill Prevention, Contingency and Countermeasures” course, 60 employees completed the Small Spill Response training, 83 individuals completed Chemical Safety and Chemical Storage training, 18 completed laboratory chemical waste training, and seven (7) individuals completed the Hazardous Material and Hazardous Waste training in fall 2024. Additionally, stormwater education, protection of surface water/watershed, and the Flint River are covered as part of classroom and Hazard Communication training, when these are offered in person. Stormwater topics are also covered during an annual health and safety training for Resident Assistants and desk staff in the Housing and Residential Life Department.
- In addition to the routine area inspections related to the SWPPP and SPCC programs, EHS-F conducted 48 hazardous waste area inspections. EHS-F also conducted 38 laboratory inspections during this reporting period. These inspections do not include regular lab self-audits conducted by the individual departments including, Biology, Computer Science, Engineering, and Physics (CSEP), and Chemistry/Biochemistry, etc.
- EHS-F routinely inspects loading dock areas that are used by food service vendors and their suppliers to ensure waste materials, such as grease, are being properly stored and managed.

Table 3 Additional Public Education Program Activities

Activities
<p>All Campuses</p> <ul style="list-style-type: none"> • U-M campuses continue to maintain recycling programs. The programs divert waste from entering landfills; reduce carbon dioxide emissions; and save gallons of water, energy, and trees. Proper disposal of potentially hazardous materials prevents contamination to the environment including surface waters. <p>U-M Ann Arbor</p> <ul style="list-style-type: none"> • The U-M Graham Sustainability Institute Water Center periodically publishes newsletters. The U-M Water Center supports and engages in research focusing on water quality, water quantity, coastal infrastructure, water policy, and more. Collaborative research teams provide users in the region, such as community leaders, legislators, resource managers, and environmental non-government organizations (NGO), with usable information and practical tools to support and enhance the protection, restoration, and management of Great Lakes and its watershed. • The U-M has a 24-hour Emergency Response Team to quickly and efficiently respond to, and mitigate releases of, polluting materials on campus. The campus community is encouraged, through presentations, training, signage, and other educational materials, to report illicit discharges and spills to EHS-AA/EHS-D/EHS-F and to the U-M Police Department (UMPD) so appropriate measures can be taken to correct issues which may impact stormwater quality. The response team is primarily comprised of U-M staff as well as 24-hour emergency response vendors to efficiently respond to and mitigate releases on campus. • EHS-AA continues to work with the U-M Outdoor Events Coordinator to provide environmental guidelines for events that may impact stormwater. As part of this effort, EHS-AA recommends

Activities

stormwater BMPs and provides requirements to event staff to ensure waters of the State are properly protected from potential impacts.

- On September 26, 2024, “2024 Earthfest” was held at the UMAA campus. This event promoted overall sustainability practices including waste prevention and healthy environments.
- With the support of EHS staff and funding, U-M College of Pharmacy hosts or participates in biannual Safe Medication Disposal Events. These events help keep medications from reaching receiving waters and more than 8,000 lbs. of medication have been collected since the program began in 2014. On October 1, 2024, College of Pharmacy students staffed two sites on campus to help collect approximately 830 lbs. of medical waste from community members in Washtenaw County. The U-M College of Pharmacy also recently received the Lawrence C. Weaver Transformative Community Service Award for this work in the community.

U-M Dearborn

- EHS-D partners with several internal groups around campus to pass out stormwater materials. This includes Mailing/Parking and the University Center who pass out Car Care brochures with parking passes to all faculty, staff, and students; University Police Department who pass out our stormwater brochure packets during student orientation; and the campus library and bookstore who pass out bookmarks throughout the year.
- The Environmental Interpretive Center (EIC) hosts monthly Stewardship Saturdays. Volunteers are called upon to participate in the removal of invasive species and garbage from the EIC grounds near the Rouge River.
- U-M Dearborn is a partner of the Friends of the Rouge (FOTR) non-profit organization. FOTR hosts monthly Public Involvement Task Force Meetings, Rouge Education Project Task Force meetings and board meetings. FOTR facilitates several volunteer monitoring programs including benthic macroinvertebrate monitoring, frog and toad surveying, and fish monitoring. Additionally, FOTR provides various workshops and educational presentations as well as play active roles in restoration projects within southeastern Michigan. Reports and additional information on their services can be found on their website at <http://therouge.org/>.
- UMD maintains three pet waste stations along the Rouge River Gateway Greenway Trail.
- All Facilities and Operations field staff receive initial and annual stormwater training.
- EHS-D provides stormwater management training to contractors to ensure awareness of environmental and occupational safety requirements.

U-M Flint

- Hazard Communication, Hazardous Waste, HAZWOPER, and other general safety classroom training offered by EHS-F address the difference between sanitary and storm drains, illicit discharges, reporting spills, protection of drains, and who to call if an illicit discharge or spill is observed. Some of these classes are offered remotely and online training modules were provided for select employees.

Activities

- UMF promotes the local Genesee County Household Hazardous Waste Collection in the spring and fall of each year to the campus community.
- SPCC/PIPP and SWPPP online training targets select employees in Facilities & Operations. Training covers BMPs, housekeeping, protection of storm drains, reporting and responding to spills, and other topics relating to SWPPP and SPCC/PIPP compliance.
- EHS-F routinely meets with contractors prior to starting jobs to go over environmental and occupational safety requirements. This includes discussion of University’s construction safety requirements, protection of storm drains, soil management, etc. EHS-F staff also conducts random inspections of work sites to ensure cautionary measures are in place prior to and during contractor work.
- At UMF, the campus community is instructed through training, posters, signage, websites, display boards, bookmarks, flyers, and e-mail communications to contact UMF Public Safety in the event of any emergency, including those involving a potential release of pollutants to a sewer or surface water. Additionally, individuals are instructed to always attempt to protect nearby drains if a material is spilled in the area and if it is safe to do so.

iii. Public Involvement and Participation

The University encourages public input in all aspects of its stormwater management program. In order to facilitate public participation, this plan and information related to the stormwater management program are made available on the stormwater web site. By viewing the Annual Reports that are placed on the web site, the general public, and members of local stream and watershed protection organizations can make themselves aware of activities the University carries out under its stormwater management program. In addition, when new stormwater management program plans are developed and finalized, the City, County, and interested local stream and watershed protection organizations are allowed to review and comment on them. Website feedback link(s) will be provided to facilitate feedback on the Stormwater Management Program Plan (SWMPP) from the community.

One public awareness group that UMAA works with on a regular basis is the Huron River Watershed Council (HRWC). Many of the HRWC's goals are consistent with the University's ideals for the preservation and protection of the surrounding natural water bodies. As a result, the University has established an informal partnership with the HRWC and has provided input to the HRWC on issues concerning the Total Maximum Daily Load program for water bodies that lie within the Huron River Watershed.

Table 4 presents the status of each Public Involvement and Participation activity, associated measurable goals as written in the SWMPP, and current or past activities supporting the measurable goals.

Table 4 Public Involvement and Participation Activities

PIP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
The SWMPP and NPDES reports will be made available on the U-M stormwater web site, http://ehs.umich.edu/environmental/environmental-data-and-reports/ The date of addition to the website will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
<ul style="list-style-type: none"> The annual report for FY 2023-2024 was added to the EHS-AA stormwater website on November 25, 2024. 				
U-M will attend a minimum of 10 meetings annually with local watershed/creekshed organizations like the HRWC, Washtenaw County Drain Commission, City of Ann Arbor, the Millers Creek Action Team (MCAT), FOTR, or other local stream protection organizations for collaboration on stormwater issues in the community. U-M's participation in meetings, community events, etc. with these groups will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
U-M All Campuses <ul style="list-style-type: none"> Approximately 24 local watershed/creekshed meetings were attended during the reporting period across all three campuses. Details are noted below. 				

U-M Ann Arbor

- Over the reporting period, EHS-AA staff attended three (3) Middle Huron Initiative (MHI) Watershed meetings, one (1) Fleming Creek Advisory Committee (FCAC) meeting, three (3) City of Ann Arbor Capital Improvement Project stakeholder meetings, six (6) U-M Resilient Grounds Steering Committee meetings, one (1) local emergency response preparedness scenario, one (1) City of Ann Arbor Stormwater Comprehensive Plan meeting, one (1) U-M Stormwater Coordination meeting, and one (1) Coalition for Action on Remediation of Dioxane (CARD) meeting.
- During this reporting period, U-M faculty and staff representing multiple groups across campus met several times to develop campus goals related to such topics as stormwater, biodiversity, and ecosystem services. This group is known as the “Resilient Grounds Steering Committee.”

U-M Dearborn

- EHS-D is an active member of the Alliance of Rouge Communities (ARC) and attended two (2) meetings during this reporting period.
- At the UM-Dearborn’s Environmental Interpretive Center (EIC) various off-campus community organizations are supported. The organizations are involved in a variety of initiatives to improve the surrounding watershed and educate the public about the importance of being good stewards of our water resources and surrounding land. We host events, meetings, and are involved in various water quality-related educational and outreach activities with the following organizations:
 - Friends of the Rouge
 - Friends of the Detroit River
 - Southeast Michigan Land Conservancy
 - Stewardship Network: Lakeplain Cluster
 - Sustainable Business Forum

U-M Flint

- EHS-F participates in ongoing planning efforts and discussions related to Flint River Restoration in the downtown Flint area. During this reporting period, EHS-F routinely walked the construction site while the Genessee County Parks and their contractors were engaged in construction activities adjacent to or on our U-M Flint campus.
- The Director of the Office of Economic Development at UMF is currently on the Board of Directors for the Friends of the Flint River Watershed, Inc. This individual attended five (5) meetings during this reporting period.

PIP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
The City, County and interested local stream and watershed protection organizations will be notified of the online availability of the U-M SWMPP for review and comment on the same frequency the information is provided to the Department. The SWMPP will be accessible on the U-M website for review by the public. Any comments received will be reviewed by EHS-AA and evaluated for inclusion in the SWMPP. Comments submitted and any actions taken in response to comments will be documented and kept on file.	FY 2009-2010 (annual)	✓	✓	
The U-M will participate in meetings of the MHI (typically semi-annual) to address the Ford & Belleville Lake TMDL on phosphorus reduction throughout the permit cycle. Attendance at these meetings will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
<ul style="list-style-type: none"> U-M participated in three (3) MHI meetings during this reporting period. The Middle Huron Partnership continues to work with the HRWC to perform monitoring of the Middle Huron tributaries. 				
PIP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
U-M will participate in Geddes Pond – E. coli TMDL efforts throughout the permit cycle. Management activities addressing E. coli include dry weather screening and illicit discharge elimination, semi-annual catch basin cleaning, pollution prevention, and public education. These efforts as well as attendance at meetings/events on this issue will be documented for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
<ul style="list-style-type: none"> No meetings were held during this reporting period; however, U-M staff attend HRWC meetings and other creekshed meetings to help address regional TMDLs. The management activities are reported in other portions of this report. 				
U-M will sponsor/offer a semi-annual volunteer opportunity for participants to get involved with stormwater improvement and education programs. Examples of opportunities include storm drain stenciling/marketing and invasive species removal projects. The number of volunteer events offered will be tracked annually for subsequent reporting. The number of participants in volunteer stewardship events will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓

U-M Ann Arbor

- A new student group on campus, Clean Up Campus, organized 12 clean up events and collected over 230 lbs of trash with 30 volunteers during the reporting period.
- Each September, the McNeil Lab Group organizes roughly 75 volunteers from the U-M Chemistry Department to clean up 20 parks in the Ann Arbor and Ypsilanti area. Over the course of 2 hrs., approximately 10,000 pieces of trash and recycling are collected and properly disposed of. Using the DebrisTracker app, they document the types of trash collected in a national database. The group plans a spring cleanup each April as well.
- The U-M was the first campus to receive a Tree Campus USA recognition in 2008 from the Tree Campus USA program, sponsored by the Arbor Day Foundation and Toyota and has continued to be part of the program annually since 2008. Some of the efforts that earned the certification include having a tree advisory committee, maintaining a campus tree-care plan, dedicating annual funding for its campus tree program, an Arbor Day observance, and hosting student service-learning projects.
<https://www.arborday.org/programs/tree-campus-higher-education/campuses.cfm>

U-M Dearborn

- UM-Dearborn is a partner of the Friends of the Rouge (FOTR) organization. FOTR hosts monthly Public Involvement Task Force Meetings, Rouge Education Project Task Force Meetings and board meetings. FOTR facilitates several volunteer monitoring programs including benthic macroinvertebrate monitoring, frog and toad surveying, and fish monitoring. Additionally, FOTR provides various workshops and educational presentations as well as play active roles in restoration projects within southeastern Michigan. Reports and additional information on their services can be found on their website at <http://therouge.org/>. Events are also posted on the EHS-D website.

U-M Flint

- EHS-F participated in several student events by staffing a table with a variety of environmental health and safety information. Information on the protection of storm drains and our watershed was included. Events included the MGagement Fair for students on September 4, 2024, and the U-M Flint Eco-Extravaganza on October 3, 2024.

PIP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
In 2010-2011, meet with local watershed/creek groups to identify joint activities and opportunities to meet permit requirements. Identify local creek/watershed groups, etc. timeframes, staffing and participation opportunities. This information will be kept on file.	FY 2011-2012 (mid-year)	✓	✓	
In 2011-2012, develop a participation plan for all campuses. Keep records of meetings attended, possible opportunities for coordination with local groups, etc. This information will be kept on file.	FY 2011-2012 (annual)	✓	✓	
In 2012-2013, implement the participation plan. Tally the number of meetings attended for annual reporting (as detailed in goals above).	FY 2012-2013 (annual)	✓	✓	

iv. Illicit Discharge Elimination Program (IDEP)

The removal of illicit discharges is an ongoing program being conducted by the U-M. As illicit discharges are identified, they are discontinued or otherwise corrected. The program described in this section will be used to determine the existence, location, and extent of possible illicit connections and discharges to the stormwater drainage system. At a minimum, it will address the elements presented in Part I, Section B.3 of the Permit.

The UMAA has been involved in an ongoing program for identifying and controlling non-point source pollution to the Huron River. The Huron River Pollution Abatement Project was developed from a grant from the federal Clean Water Act and used by the UMAA to identify illicit connections to the stormwater system. The project was completed in 1990.

The U-M will continue to encourage reporting of water quality problems and possible illicit connections and discharges to the stormwater system. EHS-AA, Utilities, Maintenance – Auxiliaries & Central Shops, and/or Maintenance Regions will receive reports of water quality problems and possible illicit connections and perform follow-up investigations, leading to elimination where appropriate.

Table 5 presents the status of each Illicit Discharge Elimination Program activity, associated measurable goals as written in the SWMPP, and current or past activities supporting the measurable goals. Table 6 includes activities that go beyond the expectations of the original measurable goals.

Table 5 Illicit Discharge Elimination Program Activities

IDEP-1 Storm Sewer Map				
<i>A storm sewer system map is required in Part I.A.7.b.1 of the Permit. The map must include the location of all discharge points the permittee owns or operates, and the names and location of all surface waters of the state which receive discharges from the MS4.</i>				
IDEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
By February 1, 2011, the U-M will create a storm sewer system map identifying the location of all if its discharge points and the names and locations of all the surface waters that the MS4 discharges into.	FY 2010-2011 (Mid-year)	✓	✓	
The storm sewer system map will be updated periodically as discharge points are identified or added. The dates of modification of the system map will be tracked and kept on file.	FY 2010-2011 (Mid-year)	✓	✓	✓
<ul style="list-style-type: none"> • UMAA continues to work with F&O Geographic Information System staff to review and update the storm sewer maps as changes/updates are needed. • UMD updates campus stormwater maps as needed. Updated information is sent to a vendor to provide up-to-date master copies. • UMF updates campus stormwater maps as needed. 				

IDEP-2 Survey of Facility Discharge Points into the System

EHS-AA has implemented a program to identify discharge points from facilities into either the sanitary sewer or stormwater systems. The first phase of this program began several years ago and resulted in the identification of facility discharge points on the Ann Arbor Campus. Information collected included water usage rates, category of activity, and categorization of water flows as domestic or non-domestic based on the activity occurring at the facility.

The second phase of the identification of facility discharge points will be implemented as part of this SWMPP. The second phase will consist of a continual observation process performed by EHS-AA, EHS-D, EHS-F, and Department of Public Safety & Security (DPSS) personnel as they perform other activities across campus facilities. The activities associated with this program are conducted as illicit discharges are identified. They are prioritized and discontinued or otherwise corrected.

IDEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
U-M will create a prioritized listing for the performance of dry-weather screening considering the criteria in Part I.A.7.b.2 of the permit. The list will be developed in 2011 to ensure the use of the most up to date storm sewer system map/information will be utilized. The list will be kept on file.	FY 2011-2012 (Mid-year)	✓	✓	

IDEP-3 Dry Weather Screening

In accordance with Part I, Section A.7.b of the permit, the purpose of dry weather field screening is to determine the existence, location, and extent of possible illicit discharges into the U-M stormwater drainage system. The screening program has been designed to target discharge points within the stormwater system that will help identify non-stormwater flow. The current procedure used for dry weather screening is attached as Appendix E [of the SWMP]. This procedure will be updated periodically, and the most current copy of the procedure will be available for review in the EHS-AA, EHS-D, EHS-F, and DPSS offices.

For the purposes of dry weather screening, the U-M will be divided into five regions. The UMD and UMF will comprise one region for screening purposes. The remaining four regions will be comprised of UMAA areas determined from the outfall prioritization task in section 5.2 above. The regions are as follows:

- UMD & UMF
- UMAA I
- UMAA II
- UMAA III
- UMAA IV

IDEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
U-M will perform dry weather screening on each MS4 discharge point at least once every 5 years beginning on February 1, 2010, (per Part I.A.7.b.3) to determine the existence, location, and extent of possible illicit discharges into the UM stormwater drainage system on all three campuses. This is typically done during four to five rounds of screening. Any issues identified for further investigation or correction will be tracked for subsequent reporting. The number of illicit discharges and connections identified and subsequently corrected or removed will be tracked for subsequent reporting.	FY 2009-2010 (annual)	✓	✓	✓
<p>U-M Ann Arbor</p> <ul style="list-style-type: none"> In conformance with the revised, EGLE-approved (November 4, 2013), dry weather screening program guideline, UMAA completed dry weather screening of all outfalls with a direct discharge to surface waters of the State in the summer and fall of 2024. Of the 76 outfalls screened, it was determined that five (5) outfalls had flow that warranted follow-up screening and sampling. The outfalls are located on the Medical Campus (MC_OF-005, MC_OF-004) and North Campus (NC_OF-001, NC_OF-016, NC_OF-003). Initial visual and olfactory screening did not indicate any potential concerns from these five outfalls. Evaluation of the sampling analytical data indicates that these flows are below numbers of concern, are not a significant contributor of pollution, and do not pose a threat to human health or the environment. However, follow-up investigation activities will be conducted in conjunction with other construction and utility replacement projects. <p>V-M Dearborn</p> <ul style="list-style-type: none"> UMD performed dry weather screening on two outfalls (DOF-001 and DOF-006) and one point of connection on August 9, 2024. One outfall (DOF-006) had flow that warranted follow-up screening and sampling. Initial visual and olfactory screening did not indicate any potential concerns from this outfall. Evaluation of the available sampling analytical data indicates that these flows are below numbers of concern, are not a significant contributor of pollution, and do not pose a threat to human health or the environment. However, follow-up investigation activities will be conducted in conjunction with other construction and utility replacement projects. <p>W-M Flint</p> <ul style="list-style-type: none"> UMF completed dry weather screening of all 12 outfalls associated with the campus between the months of August and September 2024. Flow was observed at three (3) outfalls and follow-up screening and sampling were conducted. Initial visual and olfactory screening did not indicate any potential concerns from these outfalls. Evaluation of the available sampling analytical data indicates that these flows are below numbers of concern, are not a significant contributor of pollution, and do not pose a threat to human health or the environment. However, follow-up investigation activities will be conducted in conjunction with other construction and utility replacement projects. 				

IDEP-4 Public Reporting of Illicit Discharges

Public involvement in the reporting of illicit discharges to the stormwater system is a voluntary program. Custodial & Grounds Services (CGS) and Logistics, Transportation & Parking (LTP) currently coordinate extensive recycling promotions with student housing and individual colleges on campus. These promotions include information regarding reporting of illicit discharges to EHS-AA, EHS-D, or EHS-F for follow-up. By means of its public education program, U-M advises the University community to report discharges for appropriate investigative and follow-up action.

The University maintains a 24-hour 911 emergency response system, which is coordinated and manned by DPSS on UMAA campus and DPS on UMD and UMF campuses. Any calls reporting dumping, accidental spills, etc. are dispatched from DPSS or DPS to EHS-AA, EHS-D, or EHS-F, respectively, for emergency response, containment, and control. In addition, calls can be made to EHS-AA, EHS-D, or EHS-F directly reporting such incidents for emergency response.

IDEP Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
The emergency response system on campus will be maintained by the University of Michigan Division of Public Safety & Security (DPSS) (24/7) for use by the public to report illegal dumping, spills or suspicious discharges at the University throughout the permit term. The number of calls received by the DPSS/EHS emergency response call system on potential discharges to the stormwater system will be tracked for subsequent reporting. The number of incidents remedied as a result of these calls will also be tracked and reported annually.	FY 2009-2010 (annual)	✓	✓	✓

All Campuses

- A total of 20 calls for outdoor incidents were reported via the UMPD/EHS-AA/EHS-D/EHS-F emergency response systems over the reporting period. Typically, the spilled materials were contained utilizing spill kits, cleaned up using absorbent materials, and removed for appropriate disposal by U-M's on-call Incident Response Team. Most response activities involved leaks and spills of automotive fluids (gasoline, hydraulic oil, transmission fluid, diesel, power steering fluid, brake fluid, antifreeze, and motor oil).

U-M Ann Arbor

- During this reporting period, UMAA personnel responded to approximately 84 indoor and outdoor incidents, including indoor flooding, vehicle leaks, small fires, blood, and other minor spills and leaks of materials. Most of the spills were small, ranging from a few milliliters to a few gallons. Two (2) of the 20 outdoor incidents resulted in spilled materials entering the storm drain system. Both spills were contained within the storm drain system and properly cleaned up, with no discharges or impacts to receiving waters of the State.

U-M Dearborn

- UMD had no reportable illicit discharges or spills requiring response from EHS-D or DPS during the reporting period.

U-M Flint

- UMF had no reportable illicit discharges or spills requiring response from EHS-F or DPSS during this reporting period.

Table 6 Additional Illicit Discharge Elimination Program Activities

Activities

All Campuses

- Recycling Efforts – The U-M promotes environmental awareness by sponsoring recycling programs on campus. Educational materials have been developed that address student contributions to the U-M recycling effort, educate students on the types of recyclables and where they may be taken for recycling, and educate students on the impact that recycling has on the environment.
- The University continues to review owned facilities in an effort to identify discharges into the storm and sanitary systems. As part of this survey, any areas that contain suspect flows are noted for potential dye testing.
- Erosion Control – Part 91 of the Natural Resources Environmental Protection Act (NREPA) provides for a statewide soil erosion and sedimentation control program. This program outlines the proper provisions for water disposal and the protection of soil surfaces during and after construction and is adhered to by the U-M.
- Employee Training and Education – U-M personnel involved in the application of herbicides, pesticides, and fertilizers have been trained and are certified applicators through the State of Michigan Integrated Pest Management program. In addition to the courses taken through the Michigan Department of Agriculture, U-M trains all its Grounds employees. Training programs will also be conducted to address the purpose and operation of BMP activities under this SWMPP. In addition, staff in various departments have received, or are in training to receive certification from EGLE in Stormwater Management – Construction Site, Stormwater Management – Industrial Site or Soil Erosion & Sedimentation Control.
- Hazardous Materials Response – EHS-AA, EHS-F & EHS-D are instrumental in maintaining a safe and healthy environment for faculty, staff, students, and visitors. Routine training is provided to new faculty, staff, and students regarding hazardous materials and conditions at U-M facilities. The University also maintains spill response teams (U-M staff and contracted vendors) for each campus that can quickly and efficiently respond to and mitigate releases of polluting materials.
- Hazardous Waste and Liquid Industrial Byproduct Disposal – EHS-AA is responsible for the appropriate collection and disposal of hazardous waste and hazardous materials used and generated by the Ann Arbor campus and other off-site U-M units. The program ensures tracking of the materials from point of generation through collection and ultimate disposal. Personnel are properly trained and appropriately licensed to handle the material and transport the waste on campus. Qualified contractors are used for ultimate transport and disposal off site. The EHS-D and EHS-F oversee the disposal of hazardous wastes on their respective campuses. EHS-D, EHS-AA, and EHS-F personnel are properly trained in the Resources Conservation and Recovery Act (RCRA) and the University utilizes qualified contractors for transport and proper disposal of waste off site.

Activities

- Plan Review – EHS-AA, EHS-D, and EHS-F review plans for the renovation of existing structures and the construction of new facilities. The plans are reviewed to identify potential environmental concerns and to evaluate that projects are meeting applicable environment, health, and safety requirements including the protection of stormwater quality and the stormwater drainage system.
- Stormwater Basins – Stormwater management basins are used to reduce the impact of stormwater discharges from campus locations. The basins are designed to manage peak flows and remove sediment which can significantly reduce pollutant loads in receiving waters.

U-M Ann Arbor

- EHS-AA continues to work with U-M football stadium vendors/concession stands to prevent potential discharges into the stormwater system. Concession stands were posted with signage detailing procedures for proper grease and wastewater management for these operations during the 2024 football season to reinforce proper waste management for these temporary operations. Signs will again be provided to vendors/concession stands ahead of the 2025 football season.
- EHS-AA requires that new building construction and building renovation projects resulting in new and/or modified internal piping be dye tested to confirm proper connection to the sanitary system. This requirement is in place for projects where more than 10 fixtures are impacted.
- EHS-AA conducts quarterly SWPPP inspections at six maintenance facilities. EHS-AA has also developed an online Stormwater Pollution Prevention Plan (SWPPP) training module for all applicable operational staff and facility managers at fleet maintenance and storage yards involved in the U-M SWPPP program. Thirty-seven (37) staff completed the online training between July 1, 2024 and December 31, 2024. EHS-AA continues to use the online training module for refresher training of U-M staff members.

U-M Dearborn

- EHS-D oversees the disposal of hazardous waste. EHS-D personnel are properly trained in RCRA, and the University utilizes qualified contractors for transport and disposal off site.

U-M Flint

- EHS-F oversees the disposal of hazardous waste. EHS-F routinely walks the campus and inspects loading dock areas, dumpsters, facilities operations and vehicle maintenance/storage areas, refueling operations, and construction activities to ensure that materials continue to be stored properly, secondary containment is functioning, and any outdoor storage containers remain in good condition.

v. Post-Construction Stormwater Control for New Development and Redevelopment Projects

The U-M has a program to address stormwater runoff from new development and redevelopment projects. As part of this program, the U-M manages, reviews, and continually updates campus-wide planning to address stormwater runoff from each new regulated development and redevelopment project. This program helps to ensure that controls are in place that will minimize and, in some cases, prevent impacts on water quality from new development and redevelopment projects that disturb areas greater than one acre or disturb areas less than one acre but which are part of a larger common plan of development.

Table 7 presents the status of each Post-Construction Stormwater Control activity, associated measurable goals as written in the SWMPP, and current or past activities supporting the measurable goals. Table 8 includes activities that go beyond the expectations of the original measurable goals.

Table 7 Post-Construction Stormwater Control Activities

PCSW-1 Post-Construction Stormwater Runoff				
<p><i>The University continues to review options for regional stormwater management systems at locations where current or future construction is anticipated. This regional detention would include storage for construction or renovation projects that have limited space for on-site systems. The goal of the University is to protect receiving water quality and limit the rate at which surface water runoff discharges from any specific site during and following development or redevelopment to not exceed the pre-development hydrologic regime.</i></p> <p><i>On previous projects where detention on site is not feasible the University has required a minimum of structural BMPs to improve the water quality leaving the site (sedimentation traps, etc.) and proposed regional containment within the runoff basin as the quantity control.</i></p>				
PCSW Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
By August 1, 2009, the Post-Construction Stormwater Requirements guideline which details the minimum treatment volume standard and the channel protection criteria was issued by U-M. The guideline is available on the EHS-AA website and in Appendix G of the SWMPP.	FY 2010-2011 (Mid-year)	✓	✓	
PCSW-2 Non-structural & Structural Best Management Practices				
<p><i>To meet the objectives, UM may implement various non-structural and structural BMPs where appropriate. Non-structural BMPs are preventative actions that involve management and source controls. Examples of issues that are covered in non-structural BMPs used on campus include but are not limited to the following:</i></p> <ul style="list-style-type: none"> <i>• Buffers along sensitive water bodies</i> <i>• Education programs for developers and the public about project designs that minimize water quality and quantity impacts</i> <i>• Minimum disturbance of soils and vegetation;</i> 				

- *Restrictions on directly connected impervious areas;*
- *Preservation of the natural environment;*
- *Minimization of impervious surfaces; and*
- *Use of vegetated swales and natural storage.*

Structural BMPs are physical controls, including storage practices, which improve water quality. Examples of issues covered in structural BMPs used on campus include but are not limited to the following:

- *Wet ponds and extended detention outlet structures;*
- *Filtration practices such as grassed swales, sand filters, and filter strips; and*
- *Infiltration practices such as infiltration basins and infiltration trenches.*

PCSW Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
EHS-AA and/or AEC will review all construction and renovation plans for use of structural and non-structural BMPs to prevent receiving water quality from the impacts of development and limit the rate at which surface water runoff discharges from any specific site to not exceed the pre-development hydrologic regime. The number of sites implementing various non-structural and structural BMPs will be tracked annually for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
<ul style="list-style-type: none"> • No updates during this reporting period. This information will be provided in the annual report. 				
<p align="center">PCSW-3 Operation & Maintenance of Best Management Practices</p> <p><i>Any non-structural BMPs that are implemented at a facility are incorporated into day-to-day activities for the operation of the facility or into maintenance schedules. Structural BMPs related to stormwater detention and retention basins are subject to scheduled maintenance inspections. Non-scheduled activities are completed as they arise.</i></p>				
Stormwater management basins on campus will be inspected annually, at a minimum. The number and frequency of inspections of stormwater basins will be tracked for subsequent reporting. Maintenance issues identified during these inspections will be tracked until corrected.	FY 2008-2009 (annual)	✓	✓	✓

U-M Ann Arbor

- Annual inspections for above ground basins are scheduled for spring 2025.

U-M Dearborn

- UMD does not have any aboveground stormwater management basins.

U-M Flint

- UMF does not have any aboveground stormwater management basins.

PCSW-4 Site Plan Review

The U-M has established programs to control the quality of stormwater runoff from development or redevelopment activities through the review of site plans. This program is the same as that used for controlling stormwater runoff on construction sites.

PCSW Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
EHS-AA and/or AEC review all plans to ensure projects have adequate post-construction stormwater management controls. The number of plan reviews will be tracked for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓

U-M Ann Arbor

- One hundred twenty-two (122) plan reviews were performed between July 1, 2024 and December 31, 2024, with three (3) requiring a separate SESC Plan review and approval. No projects needed an EGLE Notice of Coverage. All projects with earth disturbances are required to implement SESC BMPs, and sites with greater than one acre of earth disturbance and/or within 500ft of a water of the State are required to have an approved SESC plan to meet the PCSW control requirement.

U-M Dearborn

- UMD had no construction projects that required SESC review during this reporting period.

U-M Flint

- UMF had one (1) construction project that required a SESC plan review during this reporting period.

Table 8 Additional Post-Construction Stormwater Control Activities

Activities
<p>All Campuses</p> <ul style="list-style-type: none">• Construction sites are stabilized with the addition of permanent controls and vegetation to reduce the amount of sedimentation that could impact receiving waters.• EHS-AA, EHS-D, and EHS-F work with Construction Management to implement standard protocols to dye test the internal piping in new building construction and building renovation projects to confirm proper connection to the sanitary sewer system. A program for confirmation of taps to exterior pipes is already in place.

vi. Construction Stormwater Runoff Control

In 1982, the U-M received approval from the Michigan Department of Natural Resources to operate as an Authorized Public Agency (APA) under the authority of Part 91, Soil Erosion and Sedimentation Control (SESC) of the Natural Resource & Environmental Protection Act, 1994 PA 451, as amended (Part 91). Reauthorization of U-M's APA status was received in 2004 from the Michigan Department of Environmental Quality. APA status allows the U-M to establish and manage the Soil Erosion and Sedimentation Control procedures on its properties. Construction activity at U-M may involve contractor or in-house construction activities performed by Facilities & Operations.

The overall CSW program accomplishes the following goal:

Provide and implement controls to minimize or prevent impacts on water quality from construction activity.

Table 9 presents the status of each Construction Stormwater Runoff Control activity, associated measurable goals as written in the SWMPP, and current or past activities supporting the measurable goals. Table 10 includes activities that go beyond the expectations of the original measurable goals.

Table 9 Construction Stormwater Runoff Control Activities

CSW-1 Site Plan Reviews				
<p><i>The U-M has established programs to control the quality of stormwater runoff from development or redevelopment activities. Plans for new development are subjected to a U-M internal review process to ensure that stormwater quality is adequately controlled during construction and after completion of the new development. Efforts are underway to insert stormwater management controls into the front end of all projects. Examples of efforts on projects include control of sedimentation using silt screens or other measures, controlling sediment tracking from construction areas through increased street sweeping, and using hydroseeding to control runoff once construction efforts are completed. Reviews of all projects are performed by EHS-AA, EHS-D, or EHS-F.</i></p>				
CSW Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
Formal SESC plans are required for sites with earth disturbance (greater than 24 hours) of 1 acre or greater and projects (of any size) within 500 feet of "Waters of the State." The number of SESC site plan reviews will be tracked annually for subsequent reporting. This review process allows EHS-AA, EHS-D, or EHS-F to require projects to insert stormwater management controls into the front end of all projects.	FY 2008-2009 (Annual)	✓	✓	✓
<p>U-M Ann Arbor</p> <ul style="list-style-type: none"> During this reporting period, three (3) projects required a separate SESC Plan review and approval. No projects required an EGLE Notice of Coverage. 				

U-M Dearborn

- UMD had no construction projects that required SESC review over this reporting period.

U-M Flint

- UMF had one (1) construction project that required SESC plan review over this reporting period.

CSW-2 Best Management Practices (for SESC on construction sites)

Best Management Practices are used for construction projects to prevent soil erosion and sedimentation from leaving the property. The following list represents examples of erosion and sedimentation controls for which specific BMPs have been developed: (Copies of the BMPs can be found in the Manual and are used, as appropriate, based on the specific needs for a construction site. Note that not all sites will need to use all of these practices.)

- *Access Roads*
- *Construction Barriers*
- *Tree Protection*
- *Buffer and Filter Strips*
- *Filter Fencing*
- *Storm Drain Inlet Filter Fabric*
- *Street Sweeping*

CSW Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
The use of BMPs is required on all projects under the approved SESC Procedures for the University. The number of projects using the BMPs identified above for SESC will be tracked annually for subsequent reporting. BMPs will be selected as appropriate for site conditions.	FY 2008-2009 (annual)	✓	✓	✓

U-M Ann Arbor

- Twenty-eight (28) UMAA projects during this reporting period used a variety of SESC BMPs on their sites. Examples of BMPs included, but are not limited to, the use of vegetation, silt fences, catch basin inlet filters, check dams, street sweeping, dewatering filter bags, erosion eels, anti-trackout pads (aggregate), temporary seeding, turf reinforcement mats, and rip-rap.

U-M Dearborn

- UMD had no construction projects requiring SESC BMPs during this reporting period.

U-M Flint

- UMF had one (1) construction project requiring SESC BMPs during this reporting period.

CSW-3 SESC Inspections

Inspections of work sites are essential to controlling erosion and sedimentation concerns. Personnel from several departments have received SESC training from the EGLE. This provides a strong base of personnel to draw upon to regularly review maintenance, renovation, and construction sites. The inspections focus on requirements of site-specific erosion and sedimentation control plans for the project. Conditions can change at maintenance, renovation, and construction sites and the inspectors should make adjustments to the erosion and sedimentation control measures, as needed.

EHS-AA, EHS-D, EHS-F or their designee, who have received an EGLE SESC certificate of training, will inspect sites weekly during maintenance, renovation, and construction activities and following significant rain events to ensure compliance with the U-M SESC procedures and Part 91. Sites one acre and above will be inspected within 24 hours of the rain event to comply with National Pollution Discharge Elimination System (NPDES) inspection requirements.

Issues and concerns will be referred to the project/construction manager or designee for correction. The contractor will make any necessary repairs or corrections to the control measures within 24 hours, if waters of the state are being impacted. Other corrections, not impacting waters of the state will be made within 5 days. The project/construction manager will report any issues that cannot be corrected within 5 days to EHS-AA, EHS-D, or EHS-F. Additional detail as to why the correction cannot be made in that time frame will be required.

CSW Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
Sites will be inspected weekly and after significant rain events until final stabilization of the project site. The number of SESC inspections performed annually on U-M sites will be tracked for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
<p>U-M Ann Arbor</p> <ul style="list-style-type: none"> Approximately 594 weekly and after storm SESC inspections were performed between July 1, 2024 and December 31, 2024. <p>U-M Dearborn</p> <ul style="list-style-type: none"> UMD had no construction projects that required SESC inspections over this reporting period. <p>U-M Flint</p> <ul style="list-style-type: none"> UMF had one (1) construction project that required 28 SESC inspections over this reporting period. 				
Select staff from EHS-AA, EHS-D, EHS-F, and AEC will be SESC trained by EGLE. The number of U-M staff who have received EGLE SESC training will be tracked annually for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
<ul style="list-style-type: none"> Five (5) U-M staff are certified for comprehensive SESC training from EGLE during this reporting period. 				
Select U-M staff from EHS-AA, EHS-D, EHS-F and AEC will be certified in Stormwater Management for Construction Sites. The number of U-M staff who have received EGLE certification will be tracked annually for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
<ul style="list-style-type: none"> Ten (10) U-M staff are Certified Stormwater Operators in the State of Michigan for Construction sites during this reporting period. Four (4) U-M staff are Certified Stormwater Operators in the State of Michigan for Industrial sites during this reporting period. 				

CSW-4 Sedimentation Control During Maintenance Activities

Some maintenance activities do not typically have a formal design or specification prepared. They are performed on a work order or emergency basis by Facilities & Operations or other U-M departments such as Michigan Medicine or Athletics. The supervisor overseeing the maintenance activity will be responsible for ensuring appropriate sedimentation control measures are implemented during field work. These procedures will be used for routine operations; however, in emergency situations human life and the safety and operation of the facilities and infrastructure are of overall importance. In those cases, work will be performed to minimize any immediate danger and stabilize the situation, and sedimentation control actions will follow. This chain of actions may require the use of an outside contractor to clean the stormwater drainage system following the maintenance activities to prevent or minimize sediment transport to the Huron River. In addition to the BMPs listed above, the following BMPs will be used by the maintenance supervisor during activities that disturb soil to the degree where sediment transport could occur.

CSW Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
The use of SESC controls is required for all maintenance projects involving earthwork. The number of SESC inspections performed annually on U-M sites will be tracked for subsequent reporting.	FY 2010-2011 (annual)	✓	✓	✓
<ul style="list-style-type: none"> During this reporting period, U-M staff performed SESC inspections, as described above in CSW-3. 				

Table 10 Additional Construction Stormwater Runoff Control Activities

Activities
All Campuses <ul style="list-style-type: none"> Contractors at U-M are required to clean/sweep construction areas and adjacent areas to prevent track-out from a work site. The web links for the U-M construction safety requirements, stormwater management requirements, and SESC requirements are all incorporated into contractor bid specifications and contract documents during the reporting year. This ensures that contractors are made aware of university policies and requirements to protect surface water while working on university property. A street sweeper is recommended by U-M for contractor usage at construction sites to reduce the amount of sediment that could potentially reach receiving waters. Cleaning of the stormwater drainage system is on a preventative maintenance schedule to remove sediment buildup within the system and to lessen potential sediment impacts to receiving waters.

Activities

- The post-construction stormwater guidelines and soil erosion and sedimentation control requirements for construction projects are incorporated into the project specifications and bid documents.
- The U-M “no smoking” policy has significantly reduced cigarette debris from campus grounds.
- EHS personnel from all campuses are circulating around campus daily to address reported issues as well as checking on various project areas (e.g. covering a dumpster, debris/litter, inappropriate outdoor storage by contractors, etc.).
- Street sweeping of roads and parking lots/structures is implemented regularly on all campuses at least twice per year and on an as-needed basis. At UMF, street sweepers are used in high priority areas more frequently such as at loading docks, near compost areas, and the Hubbard Parking area.
- U-M personnel pick up litter and debris on a regular basis ranging from weekly to daily throughout the year.

vii. Pollution Prevention/Good Housekeeping for Municipal Operations

The University's stormwater pollution prevention and good housekeeping initiatives include, but are not limited to the following six areas:

- *Structural Controls*
- *Roadways*
- *Fleet Maintenance*
- *Storm Sewer Labeling*
- *Flood Control Projects*
- *Pesticides and Fertilizers*

Each area has operation and maintenance Best Management Practices with the ultimate goal of reducing and in some cases preventing pollutant runoff from University operations to the maximum extent practicable. The overall P2/GH program accomplishes the following goal:

Develop and implement a program of operational and maintenance Best Management Practices to prevent or reduce pollutant runoff from University operations.

Table 11 presents the status of the activities supporting Pollution Prevention/Good Housekeeping for Municipal Operations, associated measurable goals as written in the SWMPP, and current or past activities supporting the measurable goals. Table 12 includes activities that go beyond the expectations of the original measurable goals.

Table 11 Pollution Prevention/Good Housekeeping for Municipal Operations

P2/GH-1 Structural Controls				
<p><i>Structural controls are permanent physical features that control and prevent stormwater pollution. Each structural control has routine scheduled maintenance and long-term inspection procedures to ensure that they remove stormwater pollutants to the maximum extent practicable.</i></p> <p><i>Several retention and detention basins have been identified as part of the U-M stormwater system. These structures receive direct run-off from the U-M stormwater system and are defined in Appendix F [of the SWMPP]. The U-M has provided a spreadsheet identifying additional structural controls with inspection and maintenance schedules in Appendix K [of the SWMPP].</i></p>				
P2/GH Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
Stormwater management basins will be inspected annually during the permit term. The number and frequency of inspections on the U-M retention and detention basins will be tracked for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
<ul style="list-style-type: none"> • Annual inspections of the stormwater management basins on campus are completed each spring by U-M personnel. The number of inspections completed will be provided in the annual report. 				

Maintenance cleaning of the catch basins and storm sewer system piping will be performed periodically, with higher traffic areas and those identified via service requests receiving more attention. The goal will be to clean all catch basins in the system at least once per 5-year cycle. The number of catch basins maintained will be tracked for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
<p>U-M Ann Arbor</p> <ul style="list-style-type: none"> Catch basins across the UMAA campus are cleaned and the sewer lines jetted. Liquid waste is decanted and drained to approved sanitary locations and the remaining non-hazardous sediment and debris is transported off-site for disposal at an approved facility. To more effectively handle the storm and sanitary cleaning solids, UMAA constructed a covered storage pad for drying the solids. The solids are then loaded onto a dump truck or a roll-off container and transported to a sanitary landfill for proper disposal as non-hazardous, non-regulated waste. The number of catch basins cleaned and an estimate of the quantity of debris removed is quantified annually and will be provided in the annual report. No underground stormwater structural controls (e.g. hydrodynamic separators, underground detention chambers, baffle-type separators, etc.) were inspected or maintained during this reporting period due to the nature of the crew's scheduling. However, this work was scheduled to begin in January 2025. The schedule for inspection of underground structures is currently being entered into a preventative maintenance scheduling program targeting annual inspections. All sediment removed from the cleaning activities is properly managed and disposed. <p>U-M Dearborn</p> <ul style="list-style-type: none"> The catch basin cleaning efforts, including an estimate of the quantity of debris removed, will be provided in the annual report. <p>U-M Flint</p> <ul style="list-style-type: none"> The catch basin cleaning efforts, including an estimate of the quantity of debris removed, will be provided in the annual report. 				
P2/GH Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
By October 1, 2011, a list of municipal properties and structural stormwater controls owned or operated by U-M will be created, which includes the type and number of properties and structural controls. This list will be kept on file.	FY 2011-2012 (mid-year)	✓	✓	✓

P2/GH-2 Roadways and Parking Structures				
<p><i>The University maintains numerous parking structures and surface parking lots throughout its campuses. Maintenance of the UM roadways and parking structures incorporates sediment control activities. Street sweeping removes potential stormwater pollutants before they are carried into receiving waters in runoff from a storm event. Street sweeping and leaf and litter collection is performed by the University in an effort to prevent large debris from entering the stormwater system. Litter is disposed as normal municipal waste and leaves are composted in two locations that are well away from system catch basins or inlet structures. Maintenance activities on these structures and surfaces include street sweeping, leaf pick-up, litter and pollution controls, snow and ice removal, and roadside vegetative maintenance. These activities are discussed in greater detail below.</i></p>				
Street sweeping, leaf and litter collection will be performed periodically throughout the permit term. The cost for disposal and estimated quantity of debris, trash, dirt, etc. disposed from the maintenance and cleaning/sweeping of numerous parking structures, surface lots and roadways throughout the University will be tracked for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
<ul style="list-style-type: none"> Waste removal from roadway and parking lot cleaning and maintenance is quantified annually and will be provided in the annual report. 				
A strategy to reduce the runoff of TSS from paved surfaces to the maximum extent practicable, with a goal of reducing the annual TSS loading by 25% as compared to annual loading with no suspended solids controls will be developed (2010-2012) and implemented (2013) at the University. An estimate of the TSS loading reduction achieved through this strategy will be documented.	FY 2012-2013 (annual)	✓	✓	
P2/GH Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
Develop BMPs to control dust and suspended solids in runoff from unpaved roads and parking lots. A list of unpaved roads and parking lots will be created (2010-2011).	FY 2011-2012 (mid-year)	✓	✓	
The use of coal tar emulsions to seal asphalt surfaces will be prohibited, as required in the permit. Plan reviews for construction and renovation projects involving asphalt will include comments from EHS-AA prohibiting the use of coal tar emulsions for U-M projects. Comments on construction and renovation projects are kept on file at the EHS-AA office.	FY 2009-2010 (annual)	✓	✓	

Incremental annual reduction in the use of salt for de-icing to reach 50% reduction based on an average annual use of 2600 tons per year at UMAA from 1989 to 1999. The quantity of salt used for deicing will be tracked on an annual basis.	FY 2008-2009 (annual)	✓	✓	✓
• Salt usage is quantified annually and will be provided in the annual report.				
Increase the use of alternative de-icers annually to replace/supplement salt use. The quantity of alternative de-icers will be tracked on an annual basis.	FY 2008-2009 (annual)	✓	✓	✓
• The usage of alternative de-icers is quantified annually and will be provided in the annual report.				
All applicators (technicians) will be trained in pesticide and fertilizer use. The number of pesticide and fertilizer technicians will be tracked on an annual basis.	FY 2008-2009 (annual)	✓	✓	✓
• Applicable staff are certified Pesticide Applicators and routinely attend State of Michigan training to maintain their certification. There are approximately 73 staff currently certified as Pesticide Applicators. There are also six (6) staff certified in Integrated Pest Management.				
Eliminate the need for vegetative replacement due to salt damage to the maximum extent practicable. The need for replacement vegetation will be tracked for subsequent reporting.	FY 2008-2009 (annual)	✓	✓	✓
• Vegetation replacement due to salt damage is quantified annually and will be provided in the annual report.				
<p style="text-align: center;">P2/GH-3 Fleet Maintenance</p> <p><i>The U-M owns and operates a large fleet of vehicles, including buses and cars, that is maintained by Logistics, Transportation & Parking. The U-M also owns and operates a fleet of equipment, including lawn mowers and rototillers that is maintained by Custodial & Grounds Services. All vehicles and equipment are regularly maintained to ensure proper and effective operation as well as prevent impacts on stormwater quality.</i></p>				
P2/GH Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
In 2010-2012, Develop SWPPPs for all fleet maintenance and storage yards/facilities at U-M.	FY 2012-2013 (mid-year)	✓	✓	
In 2013, implement all SWPPP for fleet maintenance & storage yards at U-M.	FY 2013-2014 (mid-year)	✓	✓	✓
<ul style="list-style-type: none"> On-going quarterly inspections are conducted at fleet maintenance and storage yards/facilities on all campuses. An annual review and update of each SWPPP is also conducted. Documentation is kept on file for a minimum of three years. Due to U-M Facilities and Operations changes, the North Campus Facility Services SWPPP facility was removed from the SWPPP facility list during this reporting period. Significant materials were removed from the site and activities that typically require a SWPPP no longer occur at this location. 				

P2/GH-4 Storm Sewer Labeling

As of March 10, 2004, any outfall structure that the UM constructs or installs that discharges stormwater directly to waters of the State will provide permanent identification (e.g. label, color coding, or other identifying characteristic).

The storm drains placed on campus come with the message "Dump No Waste - Drains to Waterways" engraved on it. Storm drain grates already in place will be marked with a curb marker with the message "Keep our Michigan Waters Blue: Dump No Waste - Flows to River" or similar.

All U-M storm drains will be marked with the message "Dump No Waste - Drains to Waterways", "Keep our Michigan Waters Blue: Dump No Waste - Flows to River" (or similar message) during the permit cycle. The number of storm drains marked will be tracked annually for subsequent reporting.

FY 2008-2009
(annual)

✓

✓

✓

U-M Ann Arbor

- Twenty-one (21) storm drain markers were installed on catch basins, storm drain inlets, and trench drains throughout campus. Special attention was given to areas near the Football Stadium and associated parking, as well as higher use walkways on Central Campus (the Diag, North University Avenue, South University Avenue, and CC Little). Existing storm drain markers are replaced, as needed, due to general wear and fading or loss.

U-M Dearborn

- UMD did not install/replace labels during this reporting period.

U-M Flint

- UMF utilizes EHS-F staff and students to label the catch basins and drain inlets on the Flint Campus as stencils need refreshing. Labels were last installed in early 2023, but not during this reporting period. It is anticipated that this effort will be revisited as a community project with students in the coming warmer months.

P2/GH-5 Pesticides and Fertilizers

The application of pesticides and fertilizers is controlled by several departments including Custodial & Grounds Services, Facilities Maintenance, Athletics, Matthaei Botanical Gardens, Radrick Farms and Nichols Arboretum, depending on the location. The University employs Integrated Pest Management (IPM) methodology, an ecological approach to pest management, in University buildings. All available techniques are used to reduce pest populations to acceptable levels while minimizing the potential impact of pesticides upon humans and the environment.

P2/GH Activity Measurable Goals	Initial Action Reported in:	Current Status		
		In Compliance	Completed as Previously Reported	Ongoing Effort (see below)
In 2010-2011, develop an education program for U-M staff involved in fertilization of turfgrass at U-M. Also include a strategy to disseminate the requirements to contractors at U-M.	FY 2011-2012 (mid-year)	✓	✓	
In 2011-2012, implement a turfgrass fertilization education program for appropriate U-M staff and contractors. Identify educational information available/developed for each target audience applicable at U-M.	FY 2011-2012 (mid-year)	✓	✓	✓
All Campuses <ul style="list-style-type: none"> U-M provides on-going training to applicable staff about the NPDES permit restrictions on the use of fertilizer containing phosphorus. Applicable staff also stay current on new information/technologies as it relates to turf and landscape management. Applicable staff are certified Pesticide Applicators and attend State of Michigan training routinely to maintain their certification. There are approximately 73 staff currently certified as Pesticide Applicators. There are also six (6) staff certified in Integrated Pest Management. UMAA has a campus-wide certification from the Michigan Turfgrass Environmental Stewardship Program (MTESP). MTESP certification is designed to encourage strategies to prevent pollution and recognize environmentally sound management practices. The program includes sections dedicated to promoting fish and wildlife habitat, indigenous vegetation and water quality protection. 				

Table 12 Additional Activities for Pollution Prevention/Good Housekeeping for Municipal Operations

Activities
U-M Ann Arbor <ul style="list-style-type: none"> In October 2018, then U-M President Schlissel announced that U-M will pursue a path toward carbon neutrality. A President's Commission on Carbon Neutrality was appointed and met in Fall/Winter 2019 to develop strategies and a timeline to achieve carbon neutrality in a fiscally responsible manner. A final report of recommendations was released by the commission in March 2021. https://planetblue.umich.edu/campus/goals/carbonneutrality/ The Radrick Farms and U-M Golf courses have extensive green certifications for their responsible land management practices, including the Washtenaw County Community Partners for Clean Streams, which specifically targets water quality. They also utilize expertise from the Michigan Turfgrass Environmental Stewardship Program (MTESP), the Michigan Clean Corporate Citizens Program, the ePar environmental management system and the Audubon Cooperative Sanctuary Program. The UMAA Radrick Farms Golf Course and University of Michigan Golf Course were awarded the Clean Corporate Citizen (C3) designation from the EGLE in 2014 and 2015, respectively. According

Activities

to Jim Sygo, formerly of EGLE, “Michigan’s C3 program is one of the most rigorous and long-standing environmental stewardship programs in the nation, requiring facilities to have an active Environmental Management System; a strong environmental compliance history; and pollution prevention goals and measures in place.” While the Radrick Farms Golf Course is outside of the urban area boundary, U-M still considered this prestigious award worth mentioning.

- In 2017, U-M expanded its MTESP to be the first Division 1 School to receive campus-wide certification. MTESP certification is designed to encourage strategies to prevent pollution and recognize environmentally sound management practices. The program includes sections dedicated to promoting fish and wildlife habitat, indigenous vegetation and water quality protection.
- UMAA updated the snow storage guidance document in December 2024 to meet current campus needs. In an effort to reduce negative impacts associated with snow storage on UMAA campus, EHS-AA developed improved general requirements for all approved snow storage sites on campus and also developed new site-specific requirements. In addition, EHS-AA met with appropriate parties (e.g., Athletics, Parking & Transportation) to review inspections of snow storage locations and discuss findings, if any.
- In September of 2011, then U-M President Mary Sue Coleman revealed several sustainability goals for the entire University. As efforts toward university-wide carbon neutrality progress and the original sustainability goals sunset, U-M has been working to create new campus goals related to sustainability and other “climate resiliency” concerns during this reporting period. A previous goal to reduce synthetic land management chemicals by 40% by the year 2025, as compared to a 2006 baseline measurement, has been repeatedly met over the years. These sustainability metrics were tracked on a calendar-year basis. For the 2024 calendar year, the use of synthetic land management chemicals was reduced by 53%, as compared to the 2006 values (Figure 9).

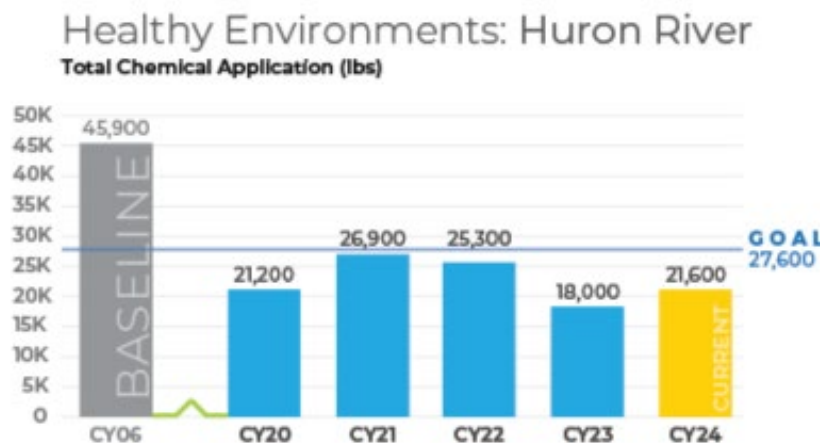


Figure 9 Chemical application reduction on campus.

- In October 2015, then U-M President Mark Schlissel reiterated the importance of the sustainability goals and especially the need for education and community awareness programs. U-M continues to make progress towards its 2025 sustainability goals. These are tracked on the Planet Blue and OCS web pages:
Planet Blue: <http://sustainability.umich.edu/>
OCS: <http://ocs.umich.edu>

Activities

- During this reporting period, U-M faculty and staff representing multiple groups across campus met several times to develop new campus goals related to such topics as stormwater, biodiversity, and ecosystem services. This group is known as the “Resilient Grounds Steering Committee.”

U-M Dearborn

- The two rain gardens on the UMD campus are located at the Environmental Interpretive Center and they demonstrate methods of keeping stormwater on site. A collaboration of various organizations including Wayne County Master Gardeners, the Student Environmental Association, and individuals from the surrounding communities has helped these gardens grow. They are maintained by student interns and many volunteers who have put in approximately 350 hours maintaining the rain gardens and the Community Organic Garden.

U-M Flint

- The U-M Flint Sustainability Committee was established by the Chancellor to lead and coordinate the work of making progress toward carbon neutrality on the Flint campus. This standing committee, through the Chancellor’s Office, is co-chaired by Heather Dawson, Professor of Biology, and Richard Hamilton, Instrument and Control Specialist Designee for Facilities and Operations. This committee will discuss and work on implementing strategies resulting from work done by U-M President’s Commission on Carbon Neutrality (PCCN).
- The U-M Flint Sustainability webpage is <https://www.umflint.edu/sustainability/> and the U-M Flint Sustainability Committee webpage is <https://www.umflint.edu/sustainability-committee/>
- The U-M Flint Sustainability Committee and its members organized a well-attended U-M Flint Eco-Extravaganza on October 3, 2024. Participants included student groups, academic departments, staff, and external partners.