Best Management Practice (BMP) Action/Activity	BMP Description/Method of Implementation	Target Audience and Key Message(s) Addressed (PEP Actions Only)	Responsible Department: -OCFM -EDCA -OCPRC -OCHD -WRMD -WRC	Schedule	Measurable Goal(s)	Method of Evaluating Effectiveness
	Public Participation/Involvement Program (PPP)				
SWMP Homepage	The WRC will have a homepage on their Web site (www.oakgov.com/water) devoted to housing Phase II Stormwater permit-related information, including the County's Storm Water Management Plan. Visitors to the site will be able to view a digital version of the SWMP and be able to provide input/comment on the plan through an email address or by phone. Comments would be incorporated into future updates of the SWMP, as appropriate. The WRC works collaboratively with watershed partner communities, Cranbrook Institute of Science, SEMCOG, SOCWA, MSU-Extension and the watershed councils. At present, Oakland County is a partner in several subwatershed advisory groups (SWAGs), participates in numerous environmentally-related committees and is a partner in the Collaborative Clinton River Watershed Public Education Plan that is being spearheaded by the Clinton River Watershed Council. The general public would be welcome at any and all of these committee meetings where they can provide their input on SWMP's at any time.	<u>Audience</u> : General public, CVTs, county employees	WRC	Ongoing		-Provide working links to SWMP homepage -Provide a summary biennially of comments received on SWMP and those incorporated in an update to the SWMP
	Public Education Plan					
Rullatin Raards	Bulletin boards in the WRC Public Works Building main lobby and framed posters in the vestibule of the WRC Water and Sewer Billing Office in Waterford are posted with information developed by the Southeast Michigan Partners for Clean Water on the "Seven Simple Steps to Clean Water" topics. Other related information is posted and/or materials are placed on the front desk of the Public Works Building main lobby for the public/county employees to take.	Audience: General public, CVTs, county employees Key Message(s): PEP Topics A-K	WRC	Annually	Maintain the postings of messages on the "Seven Simple Steps to Clean Water"	-Topics posted are tracked in an excel spreadsheet available upon request -Topics posted will be reported annually
Dirt Doctors Program	The Dirt Doctors Program is an interactive program geared towards 4th and 5th grade students and teaches youth about how individual actions affect our waterways. The program focuses on the importance of soil erosion prevention and watershed stewardship.	Audience: General public Key Message(s): PEP Topics A-C, F, G, I	WRC	Annually	Minimum of 25 programs annually	-Report on the number of students reached -Report on the number of events attended -Report on the number of presentations given -Provide pre- and post-evaluation survey results
I Irain Detectives Program	The Drain Detectives Program is an interactive program geared towards 4th through 12th grade students. It teaches students how pollution can get into our waterways, what to look for, how to detect it and how to trace the source of the pollution. Students learn how they can help prevent pollution and how to report pollution incidents through Oakland County's 24-Hour Pollution Hotline. Students also learn how water and pollution travel through the watershed.	Audience: General public Key Message(s): PEP Topics A-C, H	WRC	Annually	Minimum of 5 programs per permit cycle	-Report on the number of students reached -Report on the number of events attended -Report on the number of presentations given -Provide pre- and post-evaluation survey results
E-newsletter Articles	WRC releases an electronic newsletter to the public, CVTs, elected officials and county employees on a quarterly basis (the E-newsletter has taken the place of the WRC Watermark newsletter). This newsletter keeps Oakland County communities informed on the many projects and services provided by the WRC and highlights some of the WRC's ongoing projects and services. It also provides updates about the evolving role of the WRC office. Oakland County's 24-Hour Pollution Hotline is also published in this newsletter.	Audience: General public, CVTs, elected officials, cour employees Key Message(s): PEP Topics A-C, G, I, J	nty WRC	Published quarterly	Minimum of 4 newsletters annually	-Track environmental articles published in the E-newsletter -Report on the number of people that receive the E-newsletter
Enviroscape Watershed Model Program	The Enviroscape watershed model teaches students about watersheds and how individual actions affect our waterways, as well as how pollution moves throughout a watershed. Students are taught how to prevent pollution through everyday actions. The Enviroscape is also made available to the public to borrow for presentations.	Audience: General public Key Message(s): PEP Topics A-J	WRC	Annually	Minimum of 10 programs annually	-Report on the number of students reached -Report on the number of events attended -Report on the number of presentations given -Provide Pre- and post-evaluation survey results
Household Hazardous Waste Information	Continue to publicize information on the NO HAZ, Resource Recovery and Recycling Authority of Southwest Oakland County (RRRASOC) and Southeastern Oakland County Resource Recovery Authority (SOCRRA) programs to citizens and employees of Oakland County on WRMD's Web site (www.oakgov.com/waste/nohaz). NO HAZ, RRRASOC and SOCRRA provide safe disposal of household hazardous waste to Oakland County municipalities to the maximum extent practicable (as budget allows). The WRC will continue to distribute HHW brochures. WRC also provides an ad on household hazardous waste disposal in the Oakland Lakefront magazine and has information in its Waterfront Wisdom publication and on their Web site at www.oakgov.com/riparian .	Audience: Residents Key Message(s): PEP Topic A, G	WRMD WRC	Annually	Maintain working links to Web sites Hold a minimum of four collection events per year Collect and properly dispose of a minimum of 200,000 pounds of household hazardous waste per year	Report annually: -Provide working links to Web sites -Number of Web site hits -Number of brochures distributed -Pounds of waste collected through recycling programs
Inland Lake Natural Shoreline Program	EGLE and MSU-Extension has spearheaded the development of the Michigan Natural Shoreline Partnership (MNSP). Each year, education and outreach is provided to inland lake homeowners and shoreline landscape contractors on the following topics: the importance of natural shoreline landscapes on Michigan's inland lakes, healthy lake ecosystems, understanding the shoreline, shoreline invasive plants, planning a natural shoreline landscape, design ideas for a natural shoreline landscape, plant selection, planting stock and site preparation, natural shoreline success, and Michigan rules and regulations. In Oakland County, a partnership has formed between the WRC, MSU-Extension, OCPRC, Clinton River Watershed Council, Wild Ones, Oakland Conservation District and EGLE to offer programming locally.	Audience: General Public, Riparian Landowners Key Message(s): PEP Topics A-K	WRC	Annually	Continue to coordinate one program annually in Oakland County	Report annually: -Number of programs held -Number of attendees -Workshop partners
Interpretive Signage	Signage at county parks will be installed indicating their location within their watershed and other stewardship and water quality information.	Audience: General public Key Message(s): PEP Topics A-C, I, J	OCPRC EDCA	As funding permits	Install a minimum of five interpretive signs per permit cycle throughout Oakland County	-Report on signage installed and the content of the signage
Invasive Species Management and Education and Outreach	Invasive species management is an important topic in Oakland County - namely in regard to the inland invasive plant, <i>Phragmites australis</i> , and numerous aquatic invasive plants. Often, residents are looking for direction on how to manage these invasive species and these requests are fulfilled in a variety of ways, including printed materials, Web sites and workshops. The Oakland County CISMA is a partnership of county and local governments, non-profit organizations and universities with a focus on managing the spread of numerous invasive species. Information on the Oakland County Cooperative Invasive Species Management Area (CISMA) is available online at: https://www.michiganinvasives.org/occisma/ and at https://www.michiganinvasives.org/occisma/ and at https://www.sixriversrlc.org/oakland-county-cisma.	Audience: Residents Key Message(s): PEP Topic A, J	WRC OCPRC EDCA RCOC Other partners in Oakland County: Oakland County CISMA MI Dept. of EGLE	Annually	resources to interested residents	Report annually: -Invasive species management practices implemented on Oakland County properties -Number of requests for information regarding invasive species management -Working links to Web sites with invasive species information
Kids' (lean Water (alendar (ontest	The Kids' Clean Water Calendar contest is open to 4th and 5th grade students in all schools within Oakland County. Themes for drawing entries surround the Seven Simple Steps to Clean Water campaign topics developed by SEMCOG. The contest promotes the students to learn about watershed stewardship and how our daily actions impact our waterways.	Audience: General public Key Message(s): PEP Topics A-K	WRC	Annually in October	Achieve participation of a minimum of 600 students per year Distribute a minimum of 5,000 calendars per year throughout Oakland County	-Report on the number of student entries -Report on the number of calendars distributed -Report on the number of schools and school districts that participated

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Lake Improvement Board Assistance	Continue to serve (as required by statute) on Lake Improvement Boards acting as a liaison between the Lake Improvement Board and the WRC for technical expertise and public education opportunities and materials.	Audience: General public Key Message(s): PEP Topics A, J	WRC	Annually	Continue participation on 50 Lake Improvement Boards throughout Oakland County	-Report on number of lake improvement boards and requests for public education materials
Michigan Green Schools Program	This program was signed into law at the state level in 2006. The program encourages public and private schools to participate in energy savings and environmental activities to be designated as "Michigan Green Schools". Information on the program for Oakland County is available on Oakland Schools' Web site at: https://www.oakland.k12.mi.us/school-districts/services/environmental	Audience: K-12th grade students and teachers Key Message(s): PEP Topics A-C, E-G, I, J	WRMD Oakland Schools	Annually	Achieve participation of 175 Schools from Oakland County	-Number of Oakland County schools in program
Natural Resources Education Program	Special programs are offered by OCPRC staff throughout the year which provide opportunities for the community to participate in ongoing stewardship efforts. Programs take place at the Oakland County Parks as well as other locations in Southeast Michigan. Stewardship opportunities are posted on OCPRC's Web site at: www.destinationoakland.com	Audience: General public, visitors to the area Key Message(s): PEP Topics A, J	OCPRC	Annually	Hold a minimum of 20 stewardship events per year with participation from a minimum of 200 individuals pe year	-Report on the number and types of events held er -Report on the number of participants involved in stewardship activities
Oakland County Environmental Stewardship and	WRC, EDCA, OCPRC and MSU-Extension Oakland County maintain environmental stewardship and/or water resource information on their Web sites at: EDCA: https://www.oakgov.com/advantageoakland/planning/environmentalstewardship/Pages/default.aspx WRC: www.oakgov.com/riparian WRC 24-Hour Pollution Hotline: https://www.oakgov.com/water/stormwater/Pages/environmental.aspx OCPRC: https://www.oakgov.com/pages/setinvolved/Pages/Natural-Resource-Management.aspx MSU-Extension: https://www.oakgov.com/msu/programming/Pages/natural-resources.aspx In FY 2018, Oakland County Information Technology developed a Seven Simple Steps to Clean Water Story Map and that is available at: https://oakgov.maps.arcgis.com/apps/Cascade/index.html?appid=1676f95c659d408e94bf73096db93387 ; a link to the Story Map is on WRC's "Seven Simple Steps to Clean Water" website at: https://oakgov.maps.arcgis.com/apps/Cascade/index.html?appid=1676f95c659d408e94bf73096db93387 ; a link to the Story Map is on WRC's "Seven Simple Steps to Clean Water" website at: https://oakgov.maps.arcgis.com/apps/Cascade/index.html?appid=1676f95c659d408e94bf73096db93387 ; a link to the Story Map is on WRC's "Seven Simple Steps to Clean Water" website at: https://www.oakgov.com/water/resources/education/Pages/seven-steps.aspx . The page also promotes the 24-Hour Pollution Hotline and viewers can explore land use changes from 1940 vs. 2017 imagery within Oakland County.	Audience: General public, CVTs, county employees Key Message(s): PEP Topics A-K	WRC EDCA OCPRC RCOC MSU-Extension	Annually	Maintain working links to Web Sites	-Provide working links to Web sites
Oakland County Trail Network (OakRoutes) Mapping	Continue to update and distribute the Oakland County Trail Network (OakRoutes) map. A link to the interactive OakRoutes map is available on the Destination Oakland Web site at: https://www.oakgov.com/parks/Resources/OakRoutes%20Trail%20Map.pdf . The Oakland County 24-Hr Pollution Hotline information is on this updated map. The OakRoutes map and additional Regional Trail information is highlighted on an updated website available at: https://www.oakgov.com/parks/parksandtrails/Pages/Trails.aspx. The OakRoutes map and additional Regional Trail information is highlighted on an updated website available at: https://www.oakgov.com/parks/parksandtrails/Pages/Trails.aspx.	Audience: General public, CVTs, county employees Key Message(s): PEP Topics A, C	OCPRC EDCA	Annually	Provide updates to the OakRoutes map once per permit cycle	-Report on updates to OakRoutes map
Oakland Lakefront Magazine Advertisements	Public education messages are placed in the Oakland Lakefront magazine. The messages include pet waste management, earth-friendly fertilizers, proper household hazardous waste disposal, earth-friendly landscaping, car care, storm drain awareness and proper onsite septic system care/maintenance. Oakland Lakefront is published monthly and reaches approximately 15,400 residential homes on 67 inland lakes within Oakland County. The magazine reports that approximately 41,000 readers are reached.	Audience: General public, riparian landowners Key Message(s): PEP Topics A-K	WRC	April through September	Place six (6) ads per year Reach a minimum of 13,000 lakefront residents per ad per year	-Number and types of ads placed -Expenditures for ads
OCSC Facilitation and Participation	The WRC will continue to facilitate the Oakland County Stormwater Committee (OCSC) which was formed to keep OC departments informed of Phase II permit compliance activities and to share permit-related information. OC departments will continue to participate on the OCSC.	-	WRC OCPRC OCFM	Annually	Hold a minimum of four (4) meetings per year	-Report on number of meetings attended -Meeting agendas and handouts available upon request
Onsite Sewage Disposal (Septic System) Maintenance Education	Proper onsite sewage disposal system (OSDS) operation and maintenance is a critical part of protecting water quality within Oakland County. There are more than 80,000 households/businesses served by OSDS' within Oakland County.	Audience: General public, riparian landowners Key Message(s): PEP Topics A, C, H, J	WRC OCHD	Annually	Hold a minimum of five (5) workshops per permit cycle	-Report on number of workshops held -Report on public education ads/information published/distributed
Operation Medicine Cabinet	The Oakland County Sheriff's Office launched "Operation Medicine Cabinet" in July of 2009 to provide citizens a venue to properly dispose of expired and/or unused prescriptions at several different locations throughout Oakland County. This program helps to reduce the environmental impacts of prescription drugs in our waterways that can have detrimental effects on fish, frogs and other aquatic life. Additional information is available at: www.operationmedicinecabinetmi.com	Audience: General public Key Message(s): PEP Topic G	OC Sherriff's Office and Participating CVTs	Annually	Maintain participation of a minimum of 20 drop-off sites throughout Oakland County	-Report on the number and location of participating CVTs -Provide working link to website -Track number of website hits annually
Presentations and Displays	OC partners will provide displays and presentations for water quality-related events upon request and availability of staff time.	Audience: General public, CVTs, county employees Key Message(s): PEP Topics A-K	WRC EDCA OCHD - Environmental Health Services (EHS) OCPRC MSU-Extension	Annually	Provide a display at a minimum of six (6) events per year Provide a minimum of six (6) presentations per year on various natural-resource related topics	-Number and types of events attended
Publicize Environmental-Related Events	Publicize environmental stewardship and other relevant environmental activities to WRC staff and the general public through in-house bulletin boards in WRC lobby. Oakland County also has a Web portal where this information is available at: www.destinationoakland.com	Audience: General Public, visitors to the area, WRC staff Key Message(s): PEP Topic A	WRC OCPRC	Annually	Publicize a minimum of 20 natural- resource related events per year Maintain working links to Web sites	-Number of events publicized on bulletin board -Working link to Destination Oakland Web site
Recreational Use/Access	Continue efforts to provide access to lake, riparian and wetland habitats through universally accessible trails, piers and boardwalks.	-	OCPRC	Annually	Add or improve recreational access/use to a minimum of one (1) one Oakland County site per permit cycle	-Report on the number and location of new access locations
Recreational Vehicle Waste Dumpsites	Post links and/or locations to recreational vehicle (RV) waste dumpsites in the region on SEMCOG's <i>Ours to Protect</i> Web site at: www.semcog.org/OursToProtect HouseholdWaste.aspx and provide a link to Michigan RV dump sites (www.rvdumps.com/mi.htm on Oakland County Waste Resource Management Division's Web site at: www.oakgov.com/waste/ .	Audience: Residents, visitors to the area Key Message(s): PEP Topic G	WRMD SEMCOG	Annually	Maintain working links to Web sites	-Provide working links to Web sites
Regional Public Education Efforts	Continue to participate in the Southeast Michigan Partners for Clean Water group and support/share the resources available from this group, including: Seven Simple Steps to Clean Water brochures, tip cards and kids activity sheets. Topics include: fertilizer, car care, pet care, household hazardous waste disposal, earth-friendly landscaping, water conservation and storm drain awareness. Materials from the "Our Water. Our Future. Ours to Protect" campaign materials are distributed on an ongoing basis.	Audience: General public Key Message(s): PEP Topics A-K	WRC	Annually	Maintain postings of Seven Simple Steps to Clean Water materials throughout the year at various Oakland County buildings	-Track the number and type of materials distributed
Regional Stormwater Summit	This annual event, which debuted in 2013, features presentations on stormwater and watershed initiatives in the southeast Michigan and the Great Lakes region that are relevant in helping communities work together and gain insight into addressing the region's stormwater and watershed management challenges.	Audience: General public Key Message(s): PEP Topics A-C, G, I-K	WRC	Annually in the Fall (September/October	Achieve 100 participants annually	-Date event held and number of participants -Featured speakers and speaker topics

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Riparian Information Distribution	Maintain WRC's riparian education Web site (www.oakgov.com/riparian)	Audience: General Public, Riparian Landowners Key Message(s): PEP Topics A-K	WRC	Annually		-Number of brochures/other materials distributed -Number of riparian Web site hits
River Day Events	Oakland County partners will host and/or participate in and promote River Day events as staff time allows.	Audience: General public, County employees Key Message(s): PEP Topics A-G, I, J	WRC OCPRC	Annually	Achieve a minimum of two county- sponsored events per year.	-Number and type of River Day Events held/participated in
School Program - Clinton River Water Festival at Oakland University	Participate in the Clinton River Water Festival at Oakland University, providing staff for event planning, registration, volunteer guiding and presentations as funding and staff time permits. This water festival educates students in the Oakland County portion of the Clinton River watershed.	Audience: 5th grade students, teachers and chaperones ned. Key Message(s): PEP Topics A-G, I, J	WRC OCPRC OCHD MSU-Extension	Annually in May	Achieve participation of 1,100 students per year, plus 150 adults, chaperones and teachers and 100 volunteers. Oakland County department's to present to a minimum of 4 classes per event.	-Track participation level at event for planning, presentations, volunteer guiding
School Program - Lake St. Clair Water Festival at Macomb Community College	Participate in the Lake St. Clair Water Festival, providing staff for presentations as funding and staff time permits. This water festival educates students in the Macomb County portion of the Clinton River watershed.	Audience: 4th and 5th grade students, teachers and chaperones Key Message(s): PEP Topics A-G, I, J	WRC	Annually in May	Achieve participation of 1,500 participants. Present the Enviroscape and Dirt Doctors programs to a minimum of 4 classes per event.	-Track participation level at event for presentations and volunteer guiding
School Program - Rouge River Water Festival at Cranbrook Institute of Science	at Participate in the Rouge River Water Festival at Cranbrook, providing staff for event planning, registration, volunteer guiding and presentations as funding and staff time permits. This water festival educates students in the Oakland County portion of the Rouge River watershed.	Audience: 4th and 5th grade students, teachers and chaperones Key Message(s): PEP Topics A-G, I, J	WRC OCPRC OCHD MSU-Extension	Annually in September	Achieve participation of 1,500 participants. Oakland County department's to present to a minimum of 4 classes per event.	-Track participation level at event for planning, presentations, volunteer guiding
School Program - U of M Dearborn Water Festival	Participate in the U of M - Dearborn Water Festival providing staff for presentations as funding and staff time permits. This water festival educates students within the Wayne County portion of the Rouge River watershed.	Audience: 4th and 5th grade students, teachers and chaperones Key Message(s): PEP Topics A-J	WRC	Annually in May	WRC to present to a minimum of 4 classes per event.	-Track participation level at event for presentations and volunteer guiding
Solid Waste Plan	Continue to implement Oakland County's Solid Waste Plan which establishes an enforceable program and processes that when implemented will minimize future adverse impacts upon public health, the environment and the landscape as a result of the generation, handling, processing and disposal of Act 451, Part 115 non-hazardous solid wastes.	Audience: Residents Key Message(s): PEP Topic A, G	WRMD	Annually	Provide working link to Web site	-Status of Solid Waste Plan update -Provide working link to website -Track number of website hits annually
Storm Drain Markers/Stenciling Program	The WRC has storm drain stencils available for use by community groups, CVT's, etc. The WRC will implement storm drain marker installation at the County complex as staff time allows.	Audience: General public, County employees, CVTs Key Message(s): PEP Topics A-C	WRC	Annually	Install five storm drain markers per year.	-Number and location of storm drain markers/stencils installed
Subwatershed Advisory Group Participation	WRC staff attend subwatershed advisory group (SWAG) meetings in support of local watershed planning and implementation efforts. WRC staff also facilitate the Upper Huron/Kent Lake SWAG on a very limited basis.	-	WRC	Annually	Attend a minimum of two SWAG meetings per year.	-Refer to meeting minutes from each SWAG for participation and agenda items addressed
Technical Support	WRC will provide technical support, equipment, information and referrals to water quality-related interest groups, committees and councils - upon request and as staffing time permits.	Audience: General public, CVTs, county employees Key Message(s): PEP Topics A-K	WRC	Annually	Respond to a minimum of 20 requests	-Report on technical support provided
Watershed Council Support	WRC supports the work of the Huron River Watershed Council, the Clinton River Watershed Council and the Friends of the Rouge by monetarily supporting their organizations and the work that they do to inform and educate the public on watershed stewardship.	-	WRC	Annually	Maintain monetary support to watershed councils annually.	Report on monetary donations to each watershed group
Waterched Signage	sign purchases and will help to coordinate appropriate watershed signage locations, as requested.	Audience: General public, visitors to the area Key Message(s): PEP Topics A, B	WRC	Annually	ION WATORCHOO CIGNAGO IN A TIMOIV	-Number of watershed signs installed to date -Number of requests for watershed signage information
Workshops/Seminars	Attend workshops on various water quality/quantity programs, practices and policies. OS will make their facilities available for workshops/seminars as requested and as budget and schedule allow.	Audience: General public, CVTs, county employees Key Message(s): PEP Topics A-K	WRC EDCA OCFM	Annually	Attend and/or host a minimum of ten workshops/seminars annually.	-Report on workshop/seminars held and attended
	Illicit Discharge Elimination Plan					
Adopt-A-Road/Adopt-a-Highway Clean-up Program	Continue management and participation in the Adopt-a-Road/Highway cleanup programs.	-	WRC OCFM	Annually	lannually.	-Cubic yards of waste collected -Number of volunteers -Number of volunteer cleanup days
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Beach Monitoring Program	The OCHD performs <i>E. coli</i> sampling at various beaches of Oakland County lakes during the bathing beach season.	_	OCHD	During bathing beach season	Minimum of 300 sampling events per beach season. Minimum of 1,000 individual samples evaluated per beach season.	Report annually: -Number of lakes sampled -Number of beaches sampled -Number of sampling events -Number of individual samples -Number of beach closures -Number of CVTs included in monitoring program
	Provide a means for public reporting of environmental complaints via established WRC 24-Hour Pollution Hotline and OCHD complaint reporting mechanisms. Provide for investigations of storm drain, road drain and septic-related complaints. Promote the use of complaint hotline numbers internally to staff and externally to communities and citizens.	-	OCHD WRC OCPRC OCFM	Annually	elimination of illicit discharges. Continue publicizing the 24-Hour Pollution Hotline to inform and educate the public on how to detect	-Number of complaints investigated -Number of illicit discharges discovered -Number of illicit discharges corrected -Number of failed OSDS reported and corrected
Combined Sewer Overflow (CSO) Retention Treatment Basin (RTB) Operation	Continue operation of four CSO RTB's in compliance with NPDES permit. The four facilities include Acacia Park, Bloomfield Village, Birmingham and George W. Kuhn.	-	WRC	Annually		-Report on the amount of gallons of treated combined sewage discharged annually sReport on the % compliance with NPDES permit limitations for the RTBs
IDEP Investigations	Perform investigations to locate sources of illicit discharges found during discharge point surveys, storm drain inventories, facility and property surveys and complaint investigations.		WRC OCPRC OCFM OCHD	Annually	strive to meet 100% removal of illicit discharge sources as soon as practicable. Continue to report measurable	-Number of illicit discharges discovered
	Provide training of inspectors necessary to perform discharge point surveys, drain inventories, illicit discharge investigations and illicit discharge elimination activities. Provide illicit discharge detection, notification and complaint system training for county staff.	_	WRC OCFM OCHD OCPRC	Training for new employees within first year of employment; Training for existing employees at least once every five (5) years	Continue to train appropriate staff	-Report annually on training conducted and persons receiving training
Illicit Connection and Discharge Elimination	Perform inspections of Oakland County MS4's, properties and facilities, as necessary, to locate illicit connections and pollutant sources contributing to illicit discharges. Verify status of discharges referred to other local, county and State agencies for follow-up action.	_	WRC OCPRC OCFM OCHD	Annually	discharge sources as soon as practicable.	
MS4 Discharge Point/Outfall Database	Work with the WRC, OCFM and OCPRC to create a GIS-based database for tracking IDEP progress on Oakland County owned and operated stormwater conveyance systems. The WRC will make the database available to other Oakland County departments and divisions for population.		WRC	Updating the database is an ongoing tas	Migrate existing DP/Outfall data into GIS and/or from GIS into CAMS.	-Report annually on database status.
	Continue facilitating the Oakland Brownfield Initiative which serves to protect the County's natural resources, particularly critical water and waterways, while restoring the environment and urban vitality. Information is available on the WRMD's Web site at: https://www.oakgov.com/advantageoakland/planning/Pages/development-tools.aspx	-	WRMD	Annually	Increase the number of projects in the program and the amount of investment money leveraged annually.	-Number of properties with environmental assessment work started or completed
	OSDS' at Oakland County facilities will be properly operated and maintained. The following facilities have an OSDS: RCOC: -Milford - District #1 Garage Facility OCPRC: -Independence Oaks -Orion Oaks (Port-a-potty only) -Rose Oaks (Port-a-potty only) WRC: -Groveland Oaks Park -Island Club Condominiums in Commerce Township -Woodbridge Lake Estates in Walled Lake -Belle Ann Falls Estates in Ortonville -Iower Petitibone Lake Community Septic in Highland Township -Addison Oaks Park (maintained by WRC) -Springfield Oaks Park (maintained by WRC)	-	OCPRC WRC	Annually	Continue to properly maintain OSDS to ensure there are no illicit discharges from these systems.	

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Oakland County Onsite Sewage Disposal System (OSDS) Program	OCHD will continue to authorize issuance of permits for new OSDS and investigate and seek correction for reported failing systems.	-	OCHD	Annually	Continue septage hauler and septage receiving station inspection programs. Continue to assist CVTs in assessing a property's ability to support OSDS'. Continue to administer OSDS permitting program and perform OSDS failure evaluations. Continue to administer OSDS
Drain Discharge Point/Outfall Surveys	Use global positioning system equipment to locate and identify discharge points from WRC drain systems within the Phase II permit area of coverage. WRC will survey and dry weather screen point source discharges for illicit discharges. Identify Oakland County owned properties and facilities within the Phase II Permit area of coverage with municipal separate storm sewer systems (MS4). Identify and map discharge points locations. Dry weather screen discharge points for evidence of illicit discharges.	-	WRC OCPRC OCFM		Continue to perform Outfall and DP surveying as per Illicit Discharge Elimination Program Work Instructions and Guidelines Report annually: -Provide updated list of County drains surveyed -Maps of discharge points identified -Survey schedule -Number of discharge points screened for each Oakland County facility
Spill/Non-Stormwater Release Response	Implement spill response procedures that address pollution discharges impacting surface waters, county drains and facility pollutant spills. The spill response procedure addresses containment, source identification, source removal, notification and reporting.	-	WRC OCFM OCPRC	Annually	Continue to perform Spill Response, as appropriate, per Spill Response -WRC, OCFM and OCPRC Spill response procedures available upon request Procedures
Implement Dry Weather Discharge Screening Procedures and Parameters for Road Drainage and Storm Drainage Systems	WRC and OCPRC have a procedure in place that outlines how it conducts IDEP investigations and is available upon request. WRC may contract with OCFM to conduct its IDEP.	-	WRC OCFM OCPRC		Continue to perform Outfall and DP surveying as per Illicit Discharge Elimination Program Work Instructions and Guidelines -Report changes to procedures annually
Outfall/Discharge Point Locations and Storm	WRC and OCPRC has created a schedule for dry weather screening activities. OCFM may contract with WRC to conduct future dry weather screening activities on the County campus. WRC conducts triennial inspections on County drains that traverse the County campus.	-	WRC OCFM OCPRC	As per OC MS4 IDEP	Continue to perform Outfall and DP surveying as per Illicit Discharge Elimination Program Work Instructions and Guidelines -Report changes to schedule annually
Verify New Connections - Prevent Illicit Connections	For new construction and/or reconstruction projects of storm drains and sanitary sewers managed by WRC, proper connections are verified by WRC inspection staff.	<u>-</u>	WRC		Continue to verify proper connections for new storm and sanitary sewer hookups and drain taps to County drains -Report number of connections inspected annually
Wastewater Treatment Plant Operation	Continue operation of five wastewater treatment plants (WWTPs) in compliance with discharge permits. The five WWTPs include Walled Lake-Novi, Commerce Township, Pontiac, Brandon Schools and Lyon Oaks Golf Center Nibbler System.	-	WRC	Annually	Continue to maintain 100% -Report on the amount of treated wastewater discharged from the WWTP's annually -Report on compliance status with NPDES permits
	Construction Stormwater Runoff Control		T		
Soil Erosion and Sedimentation Control Program	OCFM/OCPRC – Continue to include soil erosion requirements in project specifications and to direct contractors to the WRC or local MEA for soil erosion requirements and permits.	-	WRC OCFM OCPRC	Annually	Continue to effectively administer the SESC program as a CEA and APA and maintain an "approved" status upon being audited by EGLE Report annually: -Number of trained/certified inspectors on staff -Number of single-family and commercial SESC permits issued -Provide working link to WRC's SESC Manual -Track soil erosion complaints and follow-up actions in CAMS
	Post-Construction Stormwater Runoff Controls for Development a Oakland County is mandated under Michigan law to review all Master Plans and Master Plans and Master Plans and Master Plans and Toning staff reviews Oakland County is mandated under Michigan law to review all Master Plans and Master Plans and Master Plans and Master Plans and Toning staff reviews	and Redevelopment			
i ommilnity waster Plan Review	Oakland County is mandated under Michigan law to review all Master Plans and Master Plan amendments prior to adoption. The County also reviews township rezonings where the property abuts a community boundary or County-owned property. The Land Use and Zoning staff reviews these plans and rezonings and submits a recommendation to the Oakland County Coordinating Zoning Committee (CZC).		EDCA	Annually	Continue to perform plan reviews, as required -Report on number of master plans and target area plans reviewed
Dams	WRC operates and maintains 36 dams that control the levels of 54 lakes. WRC has two full time technicians who visit each dam at least weekly to maintain the level to the court-ordered lake level. Each dam is inspected every three (3) years. WRC has emergency action plans for eight (8) of the dams as required by the State's Dam Safety Act. Information on lake levels is available on the WRC Web site at: https://www.oakgov.com/water/stormwater/lakes-watersheds/Pages/lake-level.aspx	-	WRC	Annually	Continue to effectively operate lake level controls to maintain legal lake levels, and perform the necessary dam inspections to ensure their safety -Report on the number of dams operated -Emergency action plans available upon request
Drainage District Mapping	Continue to map all drainage districts in GIS. These will serve as catchments within the subwatersheds that have an established legal entity and apportionment. These legal subwatershed groups can serve as models to other subwatersheds.	-	WRC	Annually	Continue to map drainage districts, as appropriate -Report on drainage districts mapped each year
Stormwater Standards	The WRC has developed and adopted updated stormwater engineering design standards to ensure that new and redevelopment projects that meet certain applicability criteria incorporate water quality and quantity protection. The standards are available on the WRC Web site at: https://www.oakgov.com/water/stormwater/Pages/Stormwater-Engineering-Design-Standards.aspx . The WRC employs various staff to review construction plans for mobile home parks, platted subdivisions, any involvement with County Drains or their easements, or drain district enlargements as required by the Drain Code.	-	WRC OCFM OCPRC	Ληημαίλ	Report annually: -Number of sewer and drain permits issued -Number of sewer and drain plans reviewed -Report on status and availability of updated stormwater standards or other related policies

Best Management Practice (BMP) Action/Activity	BMP Description/Method of Implementation	Target Audience and Key Message(s) Addressed (PEP Actions Only)	Responsible Department: -OCFM -EDCA -OCPRC -OCHD -WRMD -WRC	Schedule	Measurable Goal(s)	Method of Evaluating Effectiveness
USGS Stream Flow Gauges	Continue to financially support one (1) USGS stream gage in Oakland County that monitors stage and flow. The station includes: - Clinton River at Auburn Hills The data can be accessed from the USGS Web site at: https://waterdata.usgs.gov/nwis/uv?04161000 .	-	WRC	Annually, as budget allows		-Number of gage stations financed -Working link to USGS Web site data -Annual expenditures on gage operation
WRC Projects Under Development, Under Construction and Recently Completed	The WRC implements any number of projects involving drinking water distribution, wastewater treatment, sanitary sewage systems, and storm drainage systems to protect water quality and ensure a safe drinking water supply for many residents throughout Oakland County. Summaries on all of these projects are provided on the WRC's Web site at: https://www.oakgov.com/water/projects/Pages/default.aspx .	-	WRC	Annually	Continue to publicize planned, current and finalized projects implemented by the WRC	-Provide working link to project Web site
	Pollution Prevention and Good Housekeeping for Municip	pal Operations				
Employee/Contractor Training Related to Stormwater Management Activities	Existing employees/contractors to receive training once within 5-year permit cycle, at minimum. New employees to receive training within first year of employment. Training to include appropriate topics such as storm drain awareness, illicit discharge detection and elimination and ground maintenance, as applicable.	-	WRC OCPRC		Continue to train appropriate staff within each permit cycle.	-Number of employees/contractors trained and type of training received -Documentation of pollution prevention language in best management practice detail sheets or bid specs to protect water quality.
	Pollution Prevention and Good Housekeeping for Municip					
	Maintenance Activities for Stormwater Structural C	Controls		Par screens are cleaned following rain		
Bar Screen Cleanout	Bar screens are cleaned to remove debris that would create backups in the storm drain system.		WRC	OVONTS OF AS-MOODED	Continue to clean bar screens per scheduled maintenance programs in place	Report annually on: -Number of bar screens cleaned
Catch Basin Cleaning	WRC - Catch basins are inspected triennially; basins will be cleaned when sump is no more than 50% full. OCPRC - Catch basins are inspected annually; basins will be cleaned when sump is no more than 50% full. OCFM - Catch basins inspection program is under development; Basins will be cleaned when sump is no more than 50% full.	-	WRC OCFM OCPRC	Catch basins are cleaned when sump is no more than 50% full	Continue to inspect per schedule and clean when sump is no more than 50% full; properly dispose of the waste	-Report on number of catch basins cleaned annually -Report on yards of debris/waste that was properly disposed of
Stormwater Detention/Retention Basin Maintenance and Inspections	WRC stormwater detention basin maintenance program includes the maintenance of a listing of all Chapter 18 stormwater detention basins under WRC's jurisdiction. Field staff inspect each basins' forebay, inlet, outlet, overflow structure and pond banks. Maintenance needs are identified on the inspection form and work orders are issued to implement the necessary repair. OCPRC and OCFM inspect basins under their jurisdiction annually.	-	WRC OCPRC OCFM	WRC - Triennially OCPRC/OCFM - Annually	Continue to inspect and/or clean detention/retention basins as needed/scheduled and properly dispose of the waste	-Report on number of inspections and maintenance activities performed annually
Pump Station Maintenance	Approximately 140 storm and sanitary pump stations are operated and maintained by WRC's Pump Maintenance Unit staff to ensure proper operation.	-	WRC	times ner week	Continue to inspect and/or clean bar screens and wet wells as needed/scheduled and properly dispose of the waste	-Report annually on pump maintenance activities
Sanitary Sewer Maintenance and Inspections	Perform routine inspections of WRC-owned or operated sanitary sewer systems to ensure proper operation and prevent overflows and/or release of sewage to surface waters.	-	WRC	-Interceptors are inspected on a 3-yr cycle -Laterals are inspected every 5-10 years -Frequencies of inspections are specified in the contract between WRC and the community served by the system	Continue to perform inspection and maintenance on sanitary sewer	Report annually on: -Number of systems inspected -Number of systems repaired -Report on yards of debris/waste that was properly disposed of -Reports are available upon request
Storm Drain Maintenance and Inspections	Perform routine inspections of WRC-owned or operated storm drains. Storm structures are inspected for leaks, illegal connections, root intrusions, evidence of chemicals or oil, deterioration or other repairs needed. The downstream line condition is also inspected for needed repairs including settlement, cleaning, surface restoration and others. Open ditches are inspected for evidence of sedimentation, blockage or improper function. Inspectors record findings on field reports and generate repair sheets for any corrective actions required. During maintenance activities, WRC staff comply with proper procedures to protect the drain from erosion, minimize the amount of solids entering the drain, stabilize stream banks and protect aquatic habitat.	-	WRC I		Continue to perform storm drain	Report annually on: -Number of certified storm water operators on staff -Number of structures inspected -Number of drains inspected -Number of structural repairs completed
						-Reports are available upon request
	Pollution Prevention and Good Housekeeping for Municip	nal Operations				

Pollution Prevention and Good Housekeeping for Municipal Operations

Controls Used for Reducing or Eliminating Discharges of Water and Pollutants from Streets and Maintenance Garages

Best Management Practice (BMP) Action/Activity	BMP Description/Method of Implementation	Target Audience and Key Message(s) Addressed (PEP Actions Only)	Responsible Department: -OCFM -EDCA -OCPRC -OCHD -WRMD -WRC	Schedule	Measurable Goal(s)	Method of Evaluating Effectiveness
Road Salt Application	OCFM is responsible for winter maintenance on the County campus (roads, parking lots and sidewalks). Salt is stored at the Ground Maintenance facility on Public Works Drive in Waterford during the winter season. There are two salt storage areas, one where the salt is stored in a covered bin, and another outside covered by a heavy tarpaulin. The nearest storm drain has a rubber insert in place during this operation. The area is kept clean with the loader by scraping the pavement and placing loose salt back into the covered bin area. Salt trucks do have computer-controlled application rates (modeled after the system used by RCOC) and are covered with a weighted tarpaulin. The county has a 0% Slip and Fall Policy; as such, salt is applied to areas designated as "high risk" (such as walkways and parking lot areas); other areas are plowed and then salted. This helps to reduce the amount of salt needed to completely clean walkways and roadways. Snow plowing begins after 1.5" of snow is on the ground, with the exception of the "high risk areas". OCFM developed a PIPP (combined with its SWPPP) and is available upon request. OCFM is trying a liquid anti-icing product that should cutdown on the amount of salt used. New salt spreaders are being incorporated into the fleet which have an on-board liquid tank that will treat the salt before it leaves the truck cutting salt usage by a minimum of 30% due to reduced bounce and scatter.		OCFM	Annually (winter)		-Report on the BMPs in place to prevent stormwater runoff contamination from salt storage areas -Pollution Incident Prevention Plans (PIPPs) available upon request
Street Sweeping Programs	Continue to conduct street sweeping on roads and parking lots under County jurisdiction.	-	OCFM	RCOC: -Local roads that involve WRC Chapter 18 drains are swept once per year OCFM: -Campus streets and parking lots swept in spring and fall, at minimum	Continue to perform street sweeping,	-Report on number of curb miles swept -Report on acres of parking lot cleaned
Fleet Maintenance and Storage Yards	Implement SWPPP's, PIPP's and/or SPCC's, as applicable, to prevent pollution from maintenance garages and storage yards. Programs will address: -salt and chemical storage, vehicle washing (minimize pollution from runoff that may contain nutrients, metals, suspended solids and hydrocarbons) and maintenance (vehicle/motorized equipment fluids including used oil recycling, antifreeze recycling, containment and leak pads) and spill response.	-	WRC OCFM OCPRC	Annually		-Report annually on compliance status of each county department's SWPPP, PIPP and or SPCC documents -Report on use of "green" cleaning products -Report on certification status under the MTESP -Documents available upon request
Waste Reduction Program	Oakland County Facilities Management has been recycling waste office paper generated in County buildings and facilities for over 20 years. For much of that time that waste paper has gone to Royal Oak Recycling, who is one of the largest independent recyclers in the Midwest. Their processing facility in Royal Oak Michigan has one of the largest and fastest shredding and baling machines in the country. Facilities Management has had a successful recycling program because of the commitment of County employees to set aside their office paper waste in special containers provided by Royal Oak Recycling.	<u>-</u>	OCFM OCPRC WRC	Annually	battery recycling programs in the	-Number of pounds of paper recycled annually -Amount of batteries recycled annually -Description of the different types of materials recycled annually
	Pollution Prevention and Good Housekeeping for Munici Managing Vegetated Property	pal Operations				
Fertilizer Use	Continue the use of slow-release nitrogen fertilizer and/or low- or no-phosphorus fertilizer. Conduct soil testing to determine nutrient needs of turf.	-	OCFM OCPRC	Annually	Continue the use of slow-release nitrogen fertilizer and/or low or nophosphorus fertilizer. Conduct soil testing, as needed	Report annually on the types of fertilizer used and soil testing performed
Greenbelt Maintenance	Maintain a "no-mow" and "fertilizer-free" buffer zone along MS4's.	-	OCFM OCPRC	Annually	Continue to implement no-mow and fertilizer-free buffer areas adjacent to waterways	-Report on location of no-mow and fertilizer-free buffer areas
Mowing Practices	Follow mowing practices that save energy and maximize infiltration potential.	-	OCFM WRC OCPRC	Annually	Continue to mow high and implement no-mow zones adjacent to waterways	-Report on mower blade height -Report on location of "no-mow zones"
Pesticide Applications	Ensure that staff and contractors are certified pesticide applicators. Practice integrated pest management (IPM) techniques for both indoor and outdoor operations.	-	OCFM OCPRC	Annually; OCFM and OCPRC staff recertified every 3 years	Continue to ensure proper certification credentials for pesticide applicators and practice integrated pesticide management (IPM)	-Report on staff trained as certified pesticide applicators
Prescribed Burn Program	Oakand County Parks and Recreation Commission actively manages their natural areas with the use of prescribed burns in an effort to restore both upland and wetland natural areas and improve habitat quality within the parks. The timing of burns is carefuly planned to minimize risk to park wildlife. The burns reduce shrubby invasives, release nutrients to the system, and facilitate microhabitat that favors native forbs, grasses, sedges and wildflowers.	<u>-</u>	OCPRC	Annually	Perform prescribed burns on a mimimum of 500 acres of park properties per year.	-Report on the location and amount of park properties managed with prescribed burns annually
Turf Management Training	Participate in the Michigan Turfgrass Environmental Stewardship Program (MTESP)	-	OCPRC OCFM	Annually		Report on the number of personnel trained and the number of OC parks certified under the MTESP, and OCFM's role on the Oakland County Complexes current certification in the program.