



Division of Surface Water
NPDES Small MS4 General Permit
(OHQ000003) Annual Reporting Form

Instructions for completing this form

- OHQ000003 requires that this form be used when submitting annual reports. You may request approval to use your own reporting format.
- Annual Reports are due annually on or before April 1st.
- Complete the form and sign and date the certification statement below
- If more space is needed than is provided, identify within the provided space that Attachment A, B, C, etc. has been attached.
- If an item of the form is not applicable for your program (such as street sweeping), fill in N/A in the space provided.
- Do not include attachments such as brochures, newspaper clips, sign-in sheets, etc. related to your program with this form. You only need to summarize these within this report. These records must be filed and will be needed during program audits.
- When complete, submit this Annual Report form to the following address:
 Ohio Environmental Protection Agency
 Division of Surface Water
 Storm Water Program-Small MS4
 P.O. Box 1049
 Columbus, Ohio 43216-1049

General Information

Small MS4 Annual Report for Year: 2017		Ohio EPA Facility Permit Number: 3GQ10003*BG	
Name of MS4: Cuyahoga County			
Mailing Address: 2079 E 9TH ST			
City: CLEVELAND		State: OH	Zip Code: 44115
Country: USA		County: Cuyahoga	
Primary Contact: Hugh Blocksidge, P.E.		Title: Stormwater Manager for Cuyahoga County	
Email Address: hblocksidge@cuyahogacounty.us		Phone: (216) 443-8205	Fax:

Include or attach a Table of Organization. Indicate who (name and contact information) is responsible for overall management and implementation of your program, and if different, each minimum control measure of your program. Identify how development and implementation across multiple positions, agencies and departments occur. Also, identify any Memorandum of Understandings (MOUs) or other such agreements that exist.

PUBLIC EDUCATION AND OUTREACH

Estimate Your Permit Area of Total Population: 600

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	% Target Audience	Effective
Targeted mailing - Dog Waste	Cuyahoga Soil & Water Conservation District (Cuyahoga SWCD)	100% of licensed dog owners in the community will be reached with a message about managing pet waste.	Waste from pets and nuisance wildlife pollutes Lake Erie and our local watershed. By properly disposing of pet waste and discouraging nuisance wildlife such as geese, residents can actively improve water quality.	Pet Owners	49	Yes

Summary of Results: Brochure "Let them pick up the sticks, You pick up their waste" emailed out to 294 of 600 employees at Department of Public Works. Brochure was displayed at all locations.

Comments: None

Targeted Mailing - Illegal Dumping	Cuyahoga SWCD	10% of residents will be reached with message about illegal dumping and promotion of illegal dumping complaint hotline	Improperly disposing of household hazardous waste, restaurant waste and yard waste by dumping it down storm drains or into creeks introduces these pollutants to aquatic ecosystems in potentially toxic amounts.	Residents	49	Yes
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Summary of Results: Brochure "Illegal Dumping Identifying and Taking Action" emailed out to 294 of 600 employees at Department of Public Works. Brochure was displayed at all locations.

Comments:

2017 PIPE theme	Cuyahoga Soil & Water Conservation District (Cuyahoga SWCD)	The goal is to build awareness of watershed and stormwater issues, and to trigger behavior change that positively impacts water quality by reaching 10% of the city's population with a targeted message (so as to reach 50% over the 5-year permit term). Evaluation of overall impact will be done at the end of the permit term.	Lake Erie - Don't Waste It! Everyone lives in a watershed, and in Cuyahoga County everyone lives in the Lake Erie watershed. Because of this watershed connection, our activities at home, at school at work and throughout the community directly impact not only Lake Erie, but also our local waterways. Promotes the reduction of stormwater pollution from pet waste, human waste (HSTS/Illicit Discharge), Household Hazardous Waste, Yard Waste and Commercial Waste (e.g., restaurant grease).	Pet Owners (pet waste); Residents (re: storm drains); Riparian HSTS owners; Restaurant operators; General public, teachers/students, large commercial properties	10	Yes
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Summary of Results: See BMP's listed for summary of results for each.

Comments:

Poster - Lake Erie, Don't Waste It	Cuyahoga SWCD and Department of Public Works	Develop theme poster	1. Waste from pets and nuisance wildlife pollutes Lake Erie and our local watershed. By properly disposing of pet waste and discouraging nuisance wildlife such as geese, residents can actively improve water quality. 2. Underperforming Home Sewage Treatment Systems, especially off-lot discharging systems, pollute local streams and Lake Erie. Properly maintaining and/or upgrading these systems will improve water quality. 3. Improperly disposing of household hazardous waste, restaurant waste and yard waste by dumping it down storm drains or into creeks introduces these pollutants to aquatic ecosystems in potentially toxic amounts. 4. We all live in a watershed and our actions on the land directly affect the quality of our water.	Pet owners, Residents, General Public	33	Yes
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Summary of Results: Lake Erie - Don't Waste It poster was displayed in 6100 Canal Road - Valley View location of Department of Public Works

Comments:

Targeted Mailing - Septic Systems	Cuyahoga SWCD	All HSTS owners adjacent to streams will be reached with outreach materials outlining the environmental impacts of improperly functioning systems and recommendations for maintenance and upgrades. Additionally, at least 5% of system owners reached by the message will seek additional information, and at least 1% of residential property owners reached will adopt a recommended practice.	Underperforming Home Sewage Treatment Systems, especially off-lot discharging systems, pollute local streams and Lake Erie. Properly maintaining and/or upgrading these systems will improve water quality.	Riparian HSTS owners	49	Yes
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Summary of Results: Brochure "Failing Septic Systems Pollute Our Water" emailed out to 294 of 600 employees at Department of Public Works. Brochure was displayed at all locations.

Comments:

Targeted Mailing - Commercial Properties	Cuyahoga SWCD	All commercial properties greater than 3 acres in size will be reached by a mailing	We all live in a watershed and our actions on the land directly affect the quality of our water.	General public, teachers/students, large commercial properties	49	Yes
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Summary of Results: Brochure "What's Your Runoff Footprint - Reducing the Impact of Commercial Properties" emailed out to 294 of 600 employees at Department of Public Works. Brochure was displayed at all locations.

Comments:

Education Materials - Lake Erie, Don't Waste It	Cuyahoga SWCD and Department of Public Works	Development and publication of quarterly articles and online/social media outreach materials	1. Waste from pets and nuisance wildlife pollutes Lake Erie and our local watershed. By properly disposing of pet waste and discouraging nuisance wildlife such as geese, residents can actively improve water quality. 2. Underperforming Home Sewage Treatment Systems, especially off-lot discharging systems, pollute local streams and Lake Erie. Properly maintaining and/or upgrading these systems will improve water quality. 3. Improperly disposing of household hazardous waste, restaurant waste and yard waste by dumping it down storm drains or into creeks introduces these pollutants to aquatic ecosystems in potentially toxic amounts. 4. We all live in a watershed and our actions on the land directly affect the quality of our water.	Pet owners, Residents, General Public	100	Yes
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Summary of Results: 25/each of the following were distributed to Department of Public Works for distribution Cuyahoga SWCD Spring newsletter; Illegal Dumping brochure; Illegal Dumping article; Pick Up Poop signs; Pick Up Poop bags; Cuyahoga SWCD Summer newsletter; Native Plant sale flyer; Proper Disposal of Yard Waste article; Household Hazardous Waste article; Cuyahoga SWCD Fall newsletter; Don't Poop up the Water article. All brochures, newsletter and articles were also distributed via email and a dropbox site. Twelve monthly conservation tips were distributed via dropbox. A link was sent to Department of Public Works to the Cuyahoga SWCD blog page with pertinent stormwater blogs to link to and send to employees. A Lake Erie, Don't Waste It! themed website was sent to Department of Public Works to link to and send to their employees.

Comments:

PUBLIC EDUCATION & OUTREACH

Summarize activities you plan to undertake during the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	% Target Audience	Proposed Schedule
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Poster and Education Materials - On the Road to Clean Water	Cuyahoga SWCD and Department of Public Works	1. At least 10% of residents will receive a message about sensible salting around the home. 2. At least 50% of parking lot owners/operators/managers will receive a message about salt management. 3. At least 25% of registered boat owners will receive a message about fixing engine leaks and other clean boating tips. 4. At least 25% of registered boat owners will receive a message about not littering and other clean boating tips.	1. Road salt directly impacts aquatic life when it runs off into local streams. By adopting alternative deicing techniques and sensible salting strategies, the amount of road salt reaching local waterways will be reduced. 2. Automotive fluids that are leaked from vehicles or are improperly disposed of directly impact aquatic life when they run off into local streams. Detergents that are used to wash cars at home similarly run off to nearby streams. By properly maintaining vehicles and utilizing commercial car wash facilities, these impacts can be avoided. Litter tossed carelessly from car windows clogs storm drains, ensnares wildlife and adds to the growing plastic pollution problem in Lake Erie. 3. We all live in a watershed and our actions on the land directly affect the quality of our water.	Homeowners and Parking Lot owners, operators, managers and their contractors, Boat owners	10	2018
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Summary of Planned Activities: Poster and education materials distributed at Department of Public Works buildings

Comments: None

PUBLIC INVOLVEMENT AND PARTICIPATION

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate Of People Participated	Effective
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2017 PIPE theme	Cuyahoga SWCD	The goal is to build awareness of watershed and stormwater issues, and to trigger behavior change that positively impacts water quality by reaching 10% of the city's population with a targeted message (so as to reach 50% over the 5-year permit term). Evaluation of overall impact will be done at the end of the permit term.	Lake Erie - Don't Waste It - Everyone lives in a watershed, and in Cuyahoga County everyone lives in the Lake Erie watershed. Because of this watershed connection, our activities at home, at school at work and throughout the community directly impact not only Lake Erie, but also our local waterways. Promotes the reduction of stormwater pollution from pet waste, human waste (HSTS/Illicit Discharge), Household Hazardous Waste, Yard Waste and Commercial Waste (e.g., restaurant grease).	Pet Owners (pet waste); Residents (re: storm drains); Riparian HSTS owners; Restaurant operators; General public, teachers/students, large commercial properties	11	Yes
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Summary of Results: See BMP's listed for summary of results for each.

Comments: None

Rain Barrel Workshop	Cuyahoga SWCD	At least one Rain Barrel Workshop will be conducted in the City. Each participant will construct a rain barrel to install at his/her residence.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Homeowners	11	Yes
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Summary of Results: Rain Barrel workshop and presentation was held at 6100 Canal Road - Valley View

Comments:

PUBLIC INVOLVEMENT AND PARTICIPATION

Summarize activities you plan to undertake during the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People to Participate	Proposed Schedule
Rain Barrel Installation	Cuyahoga SWCD	At least one Rain Barrel Workshop will be conducted in the City. Each participant will construct a rain barrel to install at his/her residence.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Homeowners	10	2018

Summary of Planned Activities: At least one Rain Barrel Workshop will be conducted in the City. Each participant will construct a rain barrel to install at his/her residence.

Comments: None

Watershed-friendly Landscaping: Rain Garden Installation and/or Sustainable Lawnscape Installation	Cuyahoga SWCD	At least 1 commercial or institutional property owner or 2 city residents will install rain gardens or other sustainable landscapes, including reduction of turfed areas.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Commercial/institutional properties, Homeowners.	10	2018
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Summary of Planned Activities: At least 1 commercial or institutional property owner or 2 city residents will install rain gardens or other sustainable landscapes, including reduction of turfed areas.						
Comments:						
Tree Planting	Cuyahoga SWCD	Conduct at least one tree-planting event.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents, businesses, community organizations, churches. Especially those in riparian areas	10	2018
Summary of Planned Activities: Conduct at least one tree-planting event.						
Comments:						
Watershed-friendly lawn care and household cleaners workshop.	Cuyahoga SWCD	Conduct at least one workshop, reaching at least 10 residents.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents, Parent Organizations, Garden Clubs	10	2018
Summary of Planned Activities: Conduct at least one workshop, reaching at least 10 residents.						
Comments:						
Storm Drain Stenciling	Cuyahoga SWCD	Conduct at least one stenciling event in the community.	Automotive fluids that are leaked from vehicles or are improperly disposed of directly impact aquatic life when they run off into local streams. Detergents that are used to wash cars at home similarly run off to nearby streams. By properly maintaining vehicles and utilizing commercial car wash facilities, these impacts can be avoided. Litter tossed carelessly from car windows clogs storm drains, ensnares wildlife and adds to the growing plastic pollution problem in Lake Erie. We all live in a watershed and our actions on the land directly affect the quality of our water.	Students, youth clubs, service clubs	10	2018
Summary of Planned Activities: Conduct at least one stenciling event in the community.						
Comments:						
2018 PIPE theme	Cuyahoga SWCD	The goal is to build awareness of watershed and stormwater issues, and to trigger behavior change that positively impacts water quality by reaching 10% of the city's population with a targeted message (so as to reach 50% over the 5-year permit term). Evaluation of overall impact will be done at the end of the permit term.	On the Road to Clean Water - Everyone lives in a watershed, and in Cuyahoga County everyone lives in the Lake Erie watershed. Because of this watershed connection, our activities on and around our roadways - from how we maintain our cars and boats, to how we keep paved surfaces safe in winter - directly impact our local waterways and Lake Erie.	Homeowners (salting driveways and sidewalks); Parking lot owner/operator/managers and their contractors; Boat owners; Licensed drivers; Community Service Director and Service Department Staff; General public, teachers/students	10	2018

Summary of Planned Activities: See BMP's listed for summary of planned activities for each.

Comments:						
Stream Cleanup	Cuyahoga SWCD	At least one stream cleanup per year, with at least 10 participants.	Litter tossed carelessly from car windows clogs storm drains, ensnares wildlife and adds to the growing plastic pollution problem in Lake Erie. We all live in a watershed and our actions on the land directly affect the quality of our water.	The general public and users of the river/watershed resources - fishing clubs, canoeists/kayakers, hikers, scouts and birders.	10	2018

Summary of Planned Activities: At least one stream cleanup per year, with at least 10 participants.

Comments:

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Cite Local Code(s) Being Used (If available, web link for code(s))	Effective
Ordinance or Other Regulatory Mechanism	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	The Cuyahoga County Department of Public Works Office via the Bridge Inspection/Maintenance (BIM) Dept. inspects bridges and culverts on the County system yearly. Our inspection program already includes a Visual Inspection Worksheet that must be completed when an illicit discharge is discovered. This activity continued as part of our comprehensive Bridge Management Program.	Yes	The Cuyahoga County Department of Public Works Offices does not possess the legal authority to enact ordinances. We coordinate with municipalities, Ohio Environmental Protection Agency (OEPA), and the County Board of Health (CCBH) to remove illicit discharges. The CCBH currently addresses the storm sewer system in Olmsted Twp. and by contract, other municipalities in the County. http://www.ccbh.net/stormwater	Yes

Summary of Results or Activities: For all structures within RW and for which the County Engineer is responsible under the Ohio Revised Code, we inspect illicit discharges to our MS4. Each illicit discharge that is uncovered is documented, photographed, and followed up within the local municipality. Appropriate coordination procedures are followed and all occurrences are copied to the OEPA as well as to the CCBH.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
Storm Sewer System Map	Tom Fisher, GIS Applications Administrator and Daniel Giersz, GIS Analyst	Continue to coordinate with related agency team members to improve upon a comprehensive map product and develop methodology for enhancing existing map features related to illicit discharges when detected in the Olmsted Township, small MS4 and with County owned properties	Yes	Work with agency representatives from the CCBH, Cuyahoga County Department of Public Works, County Planning, and the County GIS Applications Administrator to develop and maintain a mapping plan to bring together each agency's geo-referenced data.	Yes

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
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HSTS Mapping and List	Cuyahoga County Board of Health	This function is performed by the Cuyahoga County Board of Health	Yes	The Board of Health maintains a database of Household Sewage Treatment Systems and provides that information through their system: www.ccbh.net/household-sewage	Yes
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Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
IDDE Plan	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division; Bryan Hitch, Maintenance Superintendent, Public Works, Sewer Division	For the County bridge and culvert projects and/or maintenance-type work, we follow the ODOT CMS and comply with all erosion and sediment controls for subdivision construction sites per the Land Development Regulations. This SCM will only typically be enforced should a new project come to fruition; upgrades are put into place, inspections uncover an illicit discharge, or inquiries related to substandard procedures are called in to the office. ORC 6117.51 calls us to work closely with the CCBH in determining the eventual overflow of all drainage systems	Yes	The Cuyahoga County Department of Public Works has a partnership with the County Board of Health to accomplish the remaining area of testing, sampling, screening, etc. The CCBH in conjunction with the OEPA will then enact any ordinances involved. The CCBH currently performs this work as part of an ongoing yearly cycle and through attrition and the rehabilitation, upgrades to roads and streets the system are improved. As part of this plan, dry-weather flows were to be investigated. Coordination in this regard will continue to adequately cover and document the County's infrastructure.	Yes

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Total # of Outfalls	# of Outfalls Screened	# of Dry-Weather Flows Identified	# of Identified Illicit Discharges	# of Eliminated Illicit Discharges	Effective
Dry-Weather Screening of Outfalls	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	Generally throughout Cuyahoga County, the NEORSD monitors streams and outfalls for contamination. Working with NEORSD staff and local communities, we investigate problems through CCTV inspections and dye-testing.	Yes	0	0	0	0	0	Yes

Comments:

Upload File Name for the Illicit Discharges: Not Applicable.docx

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Planned Activities	Comments	Effective
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Illicit Discharge Detection	James Hazimihalis	The County Public Works Office via the Bridge Inspection/Maintenance (BIM) Dept. inspects bridges and culverts on the County system yearly. Our inspection program already includes a Visual Inspection Worksheet that must be completed when an illicit discharge is discovered. This activity continued as part of our comprehensive Bridge Management Program	Yes	For all structures within RW and for which the County Engineer is responsible under the Ohio Revised Code, we inspect illicit discharges to our MS4. Each illicit discharge that is uncovered is documented, photographed, and followed up within the local municipality. Appropriate coordination procedures are followed and all occurrences are copied to the OEPA as well as to the CCBH.	None	Yes
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ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE)

Summarize activities you plan to undertake for the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
HSTS Mapping and List	Tom Fisher, GIS Applications Administrator and Daniel Giersz, GIS Analyst	HSTS mapping and the associated digital data base list are maintained by the Cuyahoga County Board of Health, CCBH. The County Survey Department will continue to maintain a support relationship with the CCBH to further enhance the map products with newly acquired GIS and GPS technologies when needed.	We continue to meet with representatives of all agencies providing data layers to the map exhibits and are refining the geospatial and cartographic models to be used by all who may generate an illicit discharge report.	All applications are in place and will be monitored over the 2018 program year. Coverage of the entire MS4 is available and we stand ready to map a reported illicit discharge.

Comments: None

Dry-Weather Screening of Outfalls	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division; Hugh Blocksidge, P.E., Stormwater Manager	Generally throughout Cuyahoga County, the NEORSD monitors streams and outfalls for contamination. Working with NEORSD staff and local communities, we investigate problems through CCTV inspections and dye-testing.	The Cuyahoga County Department of Public Works Office has begun a partnership with the CCBH to accomplish this task.	The proposed schedule is mandated solely by the efforts of the CCBH, illicit discharges that are uncovered and follow-up activities on the part of the municipalities. Meetings will be scheduled as needed throughout the year
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Comments:				
Storm Sewer System Map	Tom Fisher, GIS Applications Administrator and Daniel Giersz, GIS Analyst	Continue to develop the mapping exhibit system. The Tax Map Base mapping along with the Location Based Response System's address ranges coupled with the 2017 orthophotography, 2008 hydrology layers and 2006 2 foot contours available from the County's Enterprise GIS, will be utilized for watershed reporting for any area within our MS4 system.	We are continually developing GIS service improvements to enhance any mapping exhibit product(s) needed to accompany an illicit discharge report.	These applications are continually being refined and will be available for use throughout the entire MS4 for the purpose of illicit discharge reporting.

Comments:				
Ordinance or Other Regulatory Mechanism	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	The Cuyahoga County Department of Public Works office via the Bridge Inspection/Maintenance Department inspects bridges and culverts on the County system yearly. Our inspection program already includes a Visual Inspection Worksheet that must be completed when an illicit discharge is discovered. All structures have plans on file that include storm sewer and drainage connections that outlet into our MS4. This activity will continue as part of our comprehensive Bridge Management program. In addition, we will partner with the CCBH, especially in the township, to coordinate all future activities.	The Cuyahoga County Department of Public Works office does not possess the legal authority to enact ordinances. However, the goal is that every structure would be assessed every year in accordance with the standards and methods set in place. Another main objective is that the Visual Inspection Worksheet would be utilized effectively to coordinate efforts with each municipality and with the County Board of Health, as well as the Ohio EPA.	The schedule set in place is largely mandated by our bridge inspections and the crews that perform them. We have 2 teams that accomplish the inspections and at the same time, look for illicit discharges. This will occur typically during the months from April 15 to November 15.

Comments:

IDDE Plan	Hugh Blocksidge, P.E., Stormwater Manager; James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division; Bryan Hitch, Maintenance Superintendent, Public Works, Sewer Division	The Cuyahoga County Department of Public Works Office will continue the partnership with the CCBH in efforts to plan, coordinate and implement a future program that will systematically address all areas of the County. Mapping, sampling, screening and eventual replacement of sewer systems, HSTSS and our MS4 overall have been discussed. The CCBH currently performs these tasks and will aid the County when necessary.	We will continue to meet with the CCBH and coordinate activities, meetings, etc. We will assist each municipality as the need arises to eliminate any illicit discharges dumping into the MS4. Finally, we will continue to inspect all structures within our jurisdiction and report on their condition, as well as any illicit discharges uncovered.	The schedule is one of follow-up and notification. Once an illicit discharge is discovered, the Cuyahoga County Department of Public Works office notifies the affected municipality. This activity will continue. As we develop a partnership with the CCBH this schedule may become diversified to incorporate the dry-weather flows.
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Comments:

CONSTRUCTION SITE RUNOFF CONTROL

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Cite Local Code(s) Being Used (If available, web link for code(s))	Effective
Ordinance or Other Regulatory Mechanism	Christopher George, P.E., Chief Section Engineer, Highway Design; Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary; Michael Tworzydlo P.E., Chief Section Engineer, Construction	Establish and monitor effectiveness of language in the Cuyahoga County Department of Public Works General Provisions regarding enforcement of Sediment and Erosion Control measures on construction projects.	Yes	The County Council has the ability to pass ordinances; however, it does not have the authority to regulate stormwater management in the various municipalities within Cuyahoga County. The County is required to obtain NPDES General Construction Permit coverage for most of our projects. This Permit directs us to follow the requirements of the ODOT L&D Manual. For Sanitary projects, the construction contract stipulates following Sediment and Erosion Control requirements.	Yes

Summary of Results or Activities: All of our Road and Bridge projects are designed following the requirements of the ODOT L&D Manual. County enforces sanitary construction contracts to following the Sediment and Erosion Control requirements.

Comments: None

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Standards Being Used	Effective
Sediment and Erosion Control Requirements	Christopher George, P.E., Chief Section Engineer, Highway Design, Brendan Finn, P.E., Chief Section Engineer, Bridge Design, Construction, Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Ensure that the appropriate Sediment and Erosion Control measures are included in each of our contract plans and specifications.	Yes	We follow the standards from the ODOT L&D Manual and guidelines established by the OEPA.	Yes

Summary of Results or Activities: All contracts led by the Cuyahoga County Department of Public Works in 2017 included the appropriate Sediment and Erosion Control Measures. Update the developed flow chart to aid designers in making sure that the appropriate sections are added to the project specifications to assure compliance with the permit.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites Requiring Plans	# of Plans Reviewed	Effective
Complaint Process	Michael Tworzydlo, P.E., Chief Section Engineer, Construction	Continue to monitor and update various public input mechanisms as needed. Track the number of public suggestions/complaints and number of suggestions/complaints followed up on.	Yes	1	1	Yes

Summary of Results or Activities: Through the County website, an email address is given for stakeholders to correspond to with the Cuyahoga County Department of Public Works Office. Our field personnel have also been trained to field applicable complaints received while a given project is active.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Sites Requiring Plans	# of Plans Reviewed	Effective
Site Plan Review Procedures	Christopher George, P.E., Chief Section Engineer, Highway Design; Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Design & Review using most appropriate Sediment and Erosion Control measures. Update policies & notify staff Monitor implementation of NPDES permit	Yes	15	15	Yes

Summary of Results or Activities: Each Highway and Bridge Design Engineer is knowledgeable in the requirements of ODOT's L & D Manual concerning construction site runoff control SCMs and they apply these requirements to every project.

In-House Design (All in Olmsted township):

- 1) Glenbrook Drive
- 2) Skyline Drive
- 3) Bagley Road
- 4) Deer Path Cul-de-sac
- 5) Oakridge Cul-de-sac

Consultant Design:

- 6) Towpath Trail Stage 3, Cleveland
- 7) Noble Road, Cleveland Heights
- 8) Turney Road, Garfield Heights & Cleveland
- 9) Hathaway Road, Garfield Heights
- 10) Schady Reserve Subdivision No. 3, Olmsted Township
- 11) Avery Road Bridge 01.16 in Broadview Heights (1 site plan)
- 12) Highland Road Bridges 00.13, 00.31, 00.54, and 00.64 in Euclid (4 site plans)

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites	# of Sites Inspected	Average Frequency	Effective
Site Inspection Procedures	Michael Tworzdylo, P.E., Chief Section Engineer, Construction	In cooperation with the Cuyahoga Soil and Water Conservation District (CSWCD), we continuously monitor construction sites for compliance with approved SWPPP Plan. Administer appropriate training to assist County personnel in recognizing appropriate Sediment and Erosion Control practices.	Yes	4	37	1	Yes

Summary of Results or Activities: Runway 6/24 Safety Area Improvements Project 2 - 7 reviews

Barton, Bronson, Cook - 7 reviews

Stearns Grade Separation - 11 reviews

Bagley Rd./Pleasant Valley Rd. - 12 reviews

Comments:

Upload File Name(s) for Applicable Sites: Cuy_Cty_Ext.docx

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Violation Letters	# of Enforcement Actions	Effective
Enforcement Procedures	Michael Tworzdylo P.E., Chief Section Engineer, Construction	The Cuyahoga County Department of Public Works Dept. has included Sediment and Erosion Control measures in each construction contract developed. The General Provisions included in every contract led by the Engineers include various enforcement provisions and penalties for violation of project specifications.	Yes	0	0	Yes

Summary of Results or Activities: The Cuyahoga County Department of Public Works Department updated our contract General Provisions to contain specific language regarding maintenance of Stormwater Control Measures (SCMs) by the contractor for the duration of the contract. Sections 105.14 through 105.16 of the General Provisions outline steps taken for failure to maintain SCMs up to and including the Public Works Department taking over SCM maintenance, thus insuring that SCMs will be maintained.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Measurements	Effective
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No records found

CONSTRUCTION SITE RUNOFF CONTROL

Summarize activities you plan to undertake during the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
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Complaint Process	Michael Tworzydlo, P.E., Chief Section Engineer, Construction	Continue to train the Department of Public Works Construction Department staff on proper procedures pertaining to complaint resolution. Continue to include notification on our Project Information Signage directing the public to report illegal dumping into local waterways. Provide a user-friendly complaint form that is available on our website.	Continue to appropriately act on all public complaints received on County Projects. Continue to make the public aware of their ability to report illegal dumping into waterways by conspicuously posting on our Project Information Signs. Work towards enhancing and encouraging public interaction through the use of the form on County website	On-going.
Comments:				
Site Inspection Procedures	Michael Tworzydlo, P.E., Chief Section Engineer, Construction	Continue to verify that Contractors adhere to the approved SWPPP Plan. Continue to provide regular monitoring of SWPPP specified SCMs in County construction projects. Continue to provide appropriate training for County Construction personnel on proper installation and maintenance of SWPPP specified SCMs.	Continue to provide monthly compliance inspections on all appropriate County construction projects by SCWCD. Continue to monitor Cuyahoga County Department of Public Works projects on at least a weekly basis to ensure SCMs are functioning properly as per our contract requirements. Continue to schedule appropriate Sediment and Erosion Control Requirements training for Construction Department staff. We transitioned all departments into one for uniformity where practical.	On-going.
Comments:				
Ordinance or Other Regulatory Mechanism	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Monitor effectiveness of language in the Cuyahoga County Department of Public Works General Provisions regarding enforcement of Sediment and Erosion Control measures on construction projects. Obtaining LEED certification points for stormwater management.	Monitor effectiveness of language in the Cuyahoga County Department of Public Works General Provisions regarding enforcement of Sediment and Erosion Control measures on construction projects. We transitioned all departments into one for uniformity where practical.	On-going.
Comments:				
Sediment and Erosion Control Requirements	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Ensure that the appropriate Sediment and Erosion Control measures are included in each of our contract plans & specifications. Obtaining LEED certification points for stormwater management.	Include the appropriate Sediment and Erosion Control measures in each of our contract plans and specifications. We transitioned all departments into one for uniformity where practical.	On-going.
Comments:				
Enforcement Procedures	Michael Tworzydlo P.E., Chief Section Engineer, Construction	Continue to monitor the effectiveness of the language in our General Provisions regarding the enforcement of Sediment and Erosion Control measures on our construction projects.	Continue to monitor the effectiveness of the language in our General Provisions regarding the enforcement of Sediment and Erosion Control measures on our construction projects.	On-going.
Comments: None				

Site Plan Review Procedures	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Design and review using the most appropriate Sediment and Erosion Control measures. Update policies and notify staff accordingly. Monitor implementation of the revised NPDES Permit.	Keep abreast of updates to ODOT Specifications concerning Stormwater Management and assure that all staff engineers have current standards and specifications for performing reviews. We transitioned all departments into one for uniformity where practical.	On-going.
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Comments:

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Cite Local Code(s) Being Used (If available, web link for code(s))	Effective
Ordinance or Other Regulatory Mechanism	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Monitor effectiveness of language in Public Works General Provisions regarding enforcement of Sediment and Erosion Control measures on construction projects.	Yes	The County Council has the ability to pass ordinances; however, it does not have the authority to regulate stormwater management in the various municipalities within Cuyahoga County. The County is required to obtain NPDES General Construction Permit coverage for most of our projects. This Permit directs us to follow the requirements of the ODOT L&D Manual. For Sanitary projects, the construction contract stipulates following Sediment and Erosion Control requirements.	Yes

Summary of Results or Activities: All of our roadway and bridge projects are designed following the requirements of the ODOT L&D Manual. The standard sanitary project requirements have been developed with input from OEPA Department of Environmental and Financial Assistance.

Comments: None

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Structural and/or Non-Structural Standards Being Used	Effective
Post-Construction Requirements	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design; Michael Tworzydlo P.E., Chief Section Engineer, Construction	Identify projects where SCMs are needed; work with maintaining agencies to implement appropriate SCMs; monitor updates to ODOT policies and SCMs; monitor implementation of revised NPDES permit.	Yes	ODOT L&D Volume 2 Toolbox; CSWCD Consultation for non-traditional BMPs; CCDPW Standards for Pavement Width	Yes

Summary of Results or Activities: Monitor updates to ODOT L&D and AASHTO standards. Meet with CSWCD as needed.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites Requiring Plans	# of Plans Reviewed	Effective
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Site Plan Review Procedures	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design	Identify projects where SCMs are needed; work with maintaining agencies to implement appropriate SCMs; monitor updates to ODOT policies and SCMs; monitor implementation of revised NPDES permit.	Yes	15	5	Yes
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Summary of Results or Activities: Consultant Design:

- 1) Towpath Trail Stage Three, Cleveland
- 2) Schady Reserve Subdivision No. 3, Olmsted Township
- 3) Avery Road Bridge 01.16 in Broadview Heights (1 site plan)
- 4) Highland Road Bridges 00.13, 00.31, 00.54, and 00.64 in Euclid (4 site plans)

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites	# of Inspections Performed	Average Frequency	Effective
Site Inspection Procedures	Michael Tworzydlo, P.E., Chief Section Engineer, Construction	Continue to monitor/ inspect (in cooperation with CSWCD) the contractor's installation of Post-Construction SCMs as per the approved SWPPP and Cuyahoga County Department of Public Works construction specifications.	Yes	7	7	0	Yes

Summary of Results or Activities: E. 105/MLK - 1 field review

- Convention Center - 1 field review
- Medical Mart/Convention Center - 1 field review
- Barret Road - 1 review
- Fitch Road (CR-170) Railroad Grade Separation - 1 review
- Stearns Road Grade Separation - 1 review
- Warrensville/Van Aken Intersection - 1 review

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Violation Letters	# of Enforcement Actions	Effective
Enforcement Procedures	Michael Tworzydlo, P.E., Chief Section Engineer, Construction	Work with CSWCD to provide/host workshops annually concerning proper installation techniques of post-construction SCMs.	Yes	0	0	Yes

Summary of Results or Activities: The Cuyahoga Soil and Water Conservation District is under a Memo of Understanding with the CCDPW to inspect construction sites for long term BMP maintenance. Reports are submitted annually.

Comments: None

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Sites Requiring Plans/Agreements	# of Plans Developed/Agreements in Place	Effective
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Long-Term O&M Plans/Agreements	Nichole English, P.E., Planning and Program Administrator	The agency will continue to include our co-operation agreement in all future projects.	Yes	10	10	Yes
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Summary of Results or Activities: In the County / Municipal agreements the municipality agrees to maintain post-construction SCM as outlined in the Municipal Stormwater Permit.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Measurement 1	Measurement 2	Effective
No records found						

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

Summarize activities you plan to undertake for the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Ordinance or Other Regulatory Mechanism	Michael Tworzydlo P.E., Chief Section Engineer, Construction; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Monitor effectiveness of language in Department of Public Works General Provisions regarding enforcement of installation of Post-Construction stormwater devices on construction projects.	The County Council has the ability to pass ordinances; however, it does not have the authority to regulate stormwater management in the various municipalities within Cuyahoga County. Monitor effectiveness of language in Department of Public Works General Provisions regarding enforcement of installation of Post-Construction stormwater devices on construction projects.	On-going.

Comments: None

Post-Construction Requirements	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Identify projects where SCMs are needed. Work with maintaining agencies to implement appropriate SCMs. Monitor updates to ODOT policies/SCMs. Monitor implementation of NPDES Permit.	Evaluate all projects for SCMs Monitor updates to ODOT L&D Meet with CSWCD as needed. Monitor NPDES implementation We transitioned all departments into one for uniformity where practical.	On-Going.
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Comments:

Site Plan Review Peocedures	Brendan Finn, P.E., Chief Section Engineer, Bridge Design; Christopher George, P.E., Chief Section Engineer, Highway Design; Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary	Identify projects where SCMs are needed. Work with maintaining agencies to implement appropriate SCMs. Monitor updates to ODOT policies/SCMs. Monitor implementation of NPDES Permit.	Evaluate all projects for SCMs Monitor updates to ODOT L&D Meet with CSWCD as needed. Monitor NPDES implementation We transitioned all departments into one for uniformity where practical.	On-going.
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Comments:

Enforcement Procedures	Michael Tworzydlo, P.E., Chief Section Engineer, Construction	Continue to work with CSWCD to provide/host workshops annually focusing on current techniques for the proper installation of post-construction SCMs.	Continue to schedule appropriate training for the Department of Public Works Construction inspection personnel concerning proper installation techniques for post-construction SCMs We transitioned all departments into one for uniformity.	On-going.
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Comments:

Long-Term O&M Plans/Agreements	Nichole English, P.E., Planning and Program Administrator	The agency will continue to include our co-operation agreement in all future projects.	All new agreements state that the municipality agrees to follow and maintain post-construction SCMs as outlined in the Municipal Stormwater Permit that is filed with the OEPA. We transitioned all departments into one for uniformity.	Agreements with municipalities are filed as one of the first steps of our project planning process.
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Comments:

Site Inspection Procedures	Michael Tworzydlo, P.E., Chief Section Engineer, Construction	Continue to work with the CWSCD to monitor/inspect installation of post-construction SCMs on a monthly basis. Continue to develop procedures to enforce the contractor's obligation to properly install post-construction SCMs in a timely manner.	Continue to perform monthly inspections in cooperation with CWSCD concerning the installation of post-construction SCMs. Continue to monitor ODOT Construction & Material Specifications for any significant changes to construction techniques concerning post-construction SCMs. The County Council has the ability to pass ordinances; however, it does not have the authority to regulate stormwater management in the various municipalities within Cuyahoga County.	As necessary but at least annually.
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Comments: None

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Topic(s)	Targeted Audience	# of Employees Attended	Effective
Employee Training Program 1	Hugh Blocksidge working with the Cuyahoga Soil and Water Conservation District and the Cuyahoga County Board of Health	Hold Educational Events at the Valley View Facility and distribute information to applicable DPW staff.	Yes	Rain Barrel Workshop; brochures on Dog Waste; Illegal Dumping; Septic Systems and What's Your Runoff Footprint.	Supervisors at Valley View, York Road and Brookpark Road Facilities and the general CCDPW employee	10	Yes

Summary of Activity: A Rain Barrel Workshop was held at the Valley View Facility in September and Material Storage and Spill Cleanup workshop was held in December.

Comments: None

BMP (mechanism)	List of Municipal Facilities Subject to Program	O&M Procedures Developed?	# of Inspections Performed	Frequency of Inspections
Municipal Facilities	Brookpark Road Facility, 4000 Brookpark Road, Cleveland, OH 44134 York Road Facility, 14875 York Road, North Royalton, OH 44133 Valley View Sanitary Facility, 6100 West Canal Road, Valley View, OH 44125	Yes	0	4/year are planned.
BMP (mechanism)	Summarize Maintenance Activities and Schedules	Summarize Activities Performed		
MS4 Maintenance	Continue maintenance of roadways, structures, catch basins, drainage ditches, and facilities in Department of Public Works jurisdiction.	Continue maintenance of roadways, structures, catch basins, ditch cleaning, and facilities insuring MS4 are unobstructed and functional.		
BMP (mechanism)	Procedures Developed?	Document Amounts of Wastes Properly Disposed		

Disposal of Wastes	Yes	Trees/ clippings: 112 yds Used motor oil: 0 gal* Anti-freeze: 0 gal* *These quantities are not disposed of; they are sold to a recycler.	Scrap steel: 10 tons Construction debris: 1884 yds. Asphalt grindings: 70 tons
BMP (mechanism)	Covered?	Tons Used	Summarize Measures Taken to Minimize Usage
Road Salt	Yes	0 Tons	It is applied in high traffic areas when temperature is expected to stay below freezing. Do not pre-salt roadways. Calibrate salt spreaders to road conditions.
BMP (mechanism)	Procedures Developed?	Gallons Used	Summarize Measures Taken to Minimize Usage
Pesticide & Herbicide Usage	Yes	0 Gallons	Follow manufacturer instructions, with some products dilution is as effective.
BMP (mechanism)	Procedures Developed?	Pounds Used	Summarize Measures Taken to Minimize Usage
Fertilizer Usage	Yes	0 Pounds	Follow product labels for application rates. Educate NOT to over fertilize.
BMP (mechanism)	Procedures Developed?	Document Amount of Material Collected and Properly Disposed	
Street Sweeping	Yes	90 tons disposed of; 30 tons from previous years, plus 60 tons collected in 2016.	
BMP (mechanism)	Summarize Any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality		
Flood Management Projects	None.		
BMP (mechanism)	Summary		

No records found

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Summarize activities you plan to undertake for the next reporting cycle.

BMP (mechanism)	Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Disposal of Wastes	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division; Bryan Hitch, Maintenance Superintendent, Public Works, Sewer Division	Continue to improve our documentation process. Review on site storage methods.	Review EPA policy and other organizations for proper on-site storage methods	On-going.
Comments: None				
Road Salt	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	Continue to look for ways to minimize salt to the environment.	Continue to educate employees on snow and ice removal procedures.	Late Summer/ Fall.
Comments:				

Pesticide & Herbicide Usage	Brian Stapleton, Chief Maintenance Administrator; James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division; Jay Medlock, Environmental Health and Safety	Zero.	Continue to educate and train employees. Use outside contractor as needed.	Early Spring thru Fall.
Comments:				
Flood Management Projects	Brian Stapleton, Chief Maintenance Administrator; James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	Minimize impact of sediment removal due to flooding.	Continue to Implement SCMs to reduce sediment removal during flooding.	2018.
Comments:				
Employee Training Program	Brian Stapleton, Chief Maintenance Administrator	Train 100% of our Maintenance staff.	Focus on (1) one theme per year. Plan on using the County Board of Health to assist in this activity.	Winter/ Fall
Comments:				
List of Facilities Subject to Program:	Brian Stapleton, Chief Maintenance Administrator	Review procedures set in place.	Review/ implement any needed changes to our SWMP.	On-going.
Comments:				
Fertilizer Usage	Brian Stapleton, Chief Maintenance Administrator; James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	Zero.	(Intentionally left blank.)	(Intentionally left blank.)
Comments:				
Street Sweeping	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	To adhere to our maintenance schedule. Look at ways of improving our SWMP.	Continue maintenance procedures of MS4s	Early Spring thru Fall (weather permitting).
Comments:				
MS4 Maintenance	James J. Hazimihalis, P.E., Chief Section Engineer, Road and Bridge Inspection/Maintenance Division	To ensure our MS4s are functioning properly.	Continue roadway, structure, and maintenance programs to ensure that the SWMPs are being followed.	Early Spring thru Fall.
Comments:				
PROPOSED CHANGES TO YOUR SWMP (IF ANY)				
<i>Summarize any proposed changes to your SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements. If you fail to satisfy measurable goals for the reporting year, please explain why.</i>				
The Department of Publics Works has re-written the SWMP to the new EPA approved format. The SWMP was submitted to EPA on 12/21/16.				
VARIANCES GRANTED (IF ANY)				

Identify and summarize any variances granted under your storm water program.

N/A.

ADDITIONAL INFORMATION

Please add any additional comments or attachments below.

None