



**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**

<b>Small MS4 Annual Report for Year:</b> 2018		<b>Ohio EPA Facility Permit Number:</b> 3GQ10003*BG	
<b>Name of MS4:</b> Cuyahoga County			
<b>Mailing Address:</b> 2079 E 9TH ST			
<b>City:</b> CLEVELAND		<b>State:</b> OH	<b>Zip Code:</b> 44115
<b>Country:</b> USA		<b>County:</b> CUYAHOGA	
<b>Primary Contact:</b> Hugh Blocksidge, P.E.		<b>Title:</b> Stormwater Manager for Cuyahoga County	
<b>Email Address:</b> hblocksidge@cuyahogacounty.us		<b>Phone:</b> 216-443-8205	<b>Fax:</b>

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.

See the following page for the Cuyahoga County Table of Organization.

**Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possibility of fine and imprisonment for knowing violations.

<b>Applicant Name (printed or typed):</b> Hugh Blocksidge	<b>Title:</b> Chief Section Engineer
<b>Signature:</b> <i>Hugh Blocksidge</i>	<b>Date:</b> <b>March 26, 2019</b>

## **Cuyahoga County Table of Organization for 2018**

### **Stormwater Manager for Cuyahoga County:**

Hugh Blocksidge, P.E., Chief Section Engineer, Sanitary (appointed by David Marquard, Design and Construction Administrator) is the Stormwater Manager for Cuyahoga County

### **Public Education and Outreach:**

Koula Celebrezze, Public Information  
Joseph Conway, MIS Coordinator

### **IDDE:**

Demetrios (James) Hazimihalis, P.E., Chief Section Engineer, Road and Bridge  
Inspection/Maintenance Division  
Bryan Hitch, Maintenance Superintendent, Public Works, Sewer Division  
Tom Fisher, GIS Applications Administrator  
Dan Giersz, GIS Analyst

### **Construction Site Runoff Control:**

Michael Tworzydlo, P.E., Chief Section Engineer, Construction  
Area Construction Engineers

### **Pollution Prevention/Good Housekeeping:**

Brian Stapleton, Chief Maintenance Administrator  
Bryan Hitch, Maintenance Superintendent, Public Works, Sewer Division  
Demetrios (James) Hazimihalis, P.E., Chief Section Engineer, Road and Bridge  
Inspection/Maintenance Division  
John Pinter, Fleet Services Manager/Equipment Superintendent  
Jay Medlock, Environmental Health and Safety

### **Long-Term Planning:**

Nichole English, P.E., Planning and Program Administrator

### **Cuyahoga Soil & Water Conservation District:**

The County has a MOU with the Cuyahoga Soil & Water Conservation District for Construction Site Inspection Services including Plan Review and recommendations when requested

### **Cuyahoga County Board of Health:**

The County has a MOU with the Cuyahoga County Board of Health, which maintains records, inspects Home Sewage Treatment Systems in Cuyahoga County, and provides information when requested

### **The Cuyahoga County Stormwater Program website is:**

<http://publicworks.cuyahogacounty.us/en-us/stormwater-program.aspx>

**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 - Clean Boating and Fishing	Cuyahoga SWCD	At least 25% of registered boat owners will receive a message about fixing engine leaks and other clean boating tips.	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.	Boat owners	49	Yes

Summary of Results: Brochure "Clean Boating and Fishing" emailed to 294 of the 600 employees at Department of Public Works. Brochure was displayed at all locations.

Comments:

Targeted Mailing - Is Your Parking Lot a Source of Salt Pollution?	Cuyahoga SWCD	At least 50% of parking lot owners/operators/managers will receive a message about salt management.	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.	Parking lot owners/operator/managers and their contractors	49	Yes
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Summary of Results: Postcard "Is Your Parking Lot a Source of Salt Pollution?" emailed to 294 of the 600 employees at Department of Public Works. Brochure was displayed at all locations.

Comments:

Sensible Salting Workshop	Cuyahoga SWCD	Service department staff will be invited to at least one workshop or seminar about community sensible salting techniques.	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.	Community Service Director and Service Department Staff	0	Yes
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Summary of Results: Sensible Salting Seminars were held on the following dates/locations by the Northeast Ohio Public Involvement Public Education (NEO PIPE) work group (Cuyahoga SWCD is a member of this group)

September 11, 2018  
Bainbridge, OH  
158 people attended this workshop.

September 11, 2018  
Sandusky, OH  
160 people attended this workshop.

Comments:						
Advertisement in Bureau of Motor Vehicles - Don't Drip and Drive	Cuyahoga SWCD	At least 6% of licensed drivers will receive a message about fixing automotive leaks.	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.	Licensed drivers	6	Yes

Summary of Results: Cuyahoga SWCD placed an advertisement titled *Don't Drip and Drive* for the month of August on the Bureau of Motor Vehicles Drive TV in all locations across Cuyahoga County.

Comments:						
Poster - Don't Drip and Drive	Cuyahoga SWCD and DPW	Development and publication of quarterly articles and online/social media outreach materials	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.	Licensed drivers	33	Yes

Summary of Results: Don't Drip and Drive poster was displayed in 6100 W. Canal Road - Valley View location of Department of Public Works

Comments:

Education Materials/Outreach - On the Road to Clean Water	Cuyahoga SWCD and DPW	Development and publication of quarterly articles and online/social media outreach materials	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. 3. Litter tossed carelessly from car windows clogs storm drains, ensnares wildlife and adds to the growing plastic pollution problem in Lake Erie. 4. We all live in a watershed and our actions on the land directly affect the quality of our water.	Homeowners, Boat owners, Parking lot owners/operator/managers and their contractors, Licensed drivers, General Public, Teachers/students	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, Don't be a Litter Butt article, Cuyahoga SWCD Summer newsletter, A Day at the Beach article, Cuyahoga SWCD Winter newsletter, 'Fix that Leak' article and 'This Winter, Use the Right S.A.L.T.' article. All brochures, newsletters and articles were also distributed by email and a dropbox site. Twelve monthly conservation tips were distributed via dropbox. A link was sent to the Department of Public Works to the Cuyahoga SWCD blog page which has pertinent stormwater blogs to link to and sent to employees. A 'On the Road to Clean Water' stormwater education website was sent to Department of Public Works to link to and send to their employees.

Comments:

2018 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.	On the Road to Clean Water article 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, Parking lot owners/operator/manager, Community Service Director, Service Department Staff, Licensed drivers, Boat owners, General public, Teachers/Students	10	Yes
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Summary of Results: See BMP's listed for summary of results for each

Comments:

Targeted Mailing - This Winter, Use the Right S.A.L.T.	Cuyahoga SWCD	At least 10% of residents will receive a message about sensible salting around the home.	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.	Homeowners	49	Yes
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Summary of Results: Brochure "This Winter, Use the Right S.A.L.T." emailed to 294 of the 600 employees at Department of Public Works. Brochure was displayed at all locations.

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
Targeted Mailing - Tree Planting and Maintenance	Cuyahoga SWCD	At least 10% of households will receive a message about proper tree planting and maintenance and/or soil amendments.	Soak It In: Trees intercept and infiltrate rainwater before it can be converted to runoff. Likewise, increasing the organic content of urban and suburban soils increases their infiltrative/storage capacity.	Homeowners and residents	10	2019

Summary of Planned Activities: Tree-planting and maintenance mailing to residents - Printed materials will be mailed to 10% of households in the community about proper tree planting and maintenance

Comments:

Education Materials/Outreach	Cuyahoga SWCD and DPW	Development and publication of quarterly articles and online/social media outreach materials	1. Slow It Down: Converting impervious surfaces and turf areas from grass to native vegetation such as pollinator gardens or native prairie gardens, and directing roof runoff to rain barrels, slows the flow of runoff from the landscape to local storm sewers, streams and Lake Erie. 2. Spread It Out: Disconnecting and directing downspouts and other runoff to rain gardens effectively spreads runoff over the landscape instead of concentrating it in storm sewers, where it is transported directly to local creeks, rivers and Lake Erie. 3. Soak It In: Trees intercept and infiltrate rainwater before it can be converted to runoff. Likewise, increasing the organic content of urban and suburban soils increases their infiltrative/storage capacity. 4. We all live in a watershed and our actions on the land directly affect the quality of our water.	General Public	10	2019
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Summary of Planned Activities: Poster display placed in community hall. Distribution of printed educational materials at community hall, placement of articles in community newsletters and Cuyahoga SWCD newsletter, and on community and Cuyahoga SWCD websites. Information also sent to community thru Dropbox to be distributed to residents via email, community newsletter and posted on community website. Monthly conservation tips, blogs, and stormwater education website to be shared with DPW employees

Comments:

BMP Name Is Required					0	
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Summary of Planned Activities:

Comments:

2019 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 community'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.	Reduce Runoff - Slow It Down, Spread It Out, Soak It In & Increased stormwater runoff from impervious surfaces and lawns negatively impacts water quality and aquatic habitat in our local waterways and Lake Erie. Implementing small-scale stormwater management practices such as rain gardens, rain barrels, trees, improved soil health and impervious surface/turf reduction help the built environment to better mimic the way water flows through the natural environment, reducing negative impacts to water quality.	Residents, Homeowners	10	2019
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Summary of Planned Activities: See BMP's listed for planned activities for each

Comments:

**PUBLIC INVOLVEMENT AND PARTICIPATION**

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate Of People Participated	Effective
2018 PIPE Theme	Cuyahoga SWCD and DPW	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, Parking lot owners/operator/manager, Community Service Director, Service Department Staff, Licensed drivers, Boat owners, General public, Teachers/Students	10	Yes

Summary of Results: See BMP's listed for summary of results for each

Comments:



Stormwater Pledges	Cuyahoga SWCD and DPW	Stow it, Don't Throw It pledge Car/boat litter bags will be given to those who take the pledge This Winter, Use the Right S.A.L.T. pledge Salt scoop coffee mug will be given to those who take the pledge	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. 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.	General Public	17	Yes
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Summary of Results: Stow It, Don't Throw It pledge - 264 people took this pledge. 17 people from DPW took the pledge. This Winter, Use the Right Salt pledge - 246 people took this pledge. 17 people from DPW took the pledge

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
2019 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 community'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.	Reduce Runoff - Slow It Down, Spread It Out, Soak It In & Increased stormwater runoff from impervious surfaces and lawns negatively impacts water quality and aquatic habitat in our local waterways and Lake Erie. Implementing small-scale stormwater management practices such as rain gardens, rain barrels, trees, improved soil health and impervious surface/turf reduction help the built environment to better mimic the way water flows through the natural environment, reducing negative impacts to water quality.	Residents, Homeowners	20	2019

Summary of Planned Activities: See BMP's listed for planned activities for each. One or more of these activities will be implemented

Comments:

Stream Cleanup	Cuyahoga SWCD	At least one stream cleanup per year, with at least 10 participants	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	2019
Summary of Planned Activities: At least one stream cleanup per year, with at least 10 participants.						
Comments:						
Rain Barrel Installation & Rain Barrel Art	Cuyahoga SWCD	At least one Rain Barrel Workshop will be conducted in the community. Each participant will construct a rain barrel to install at his/her residence.	Slow It Down: Converting impervious surfaces and turf areas from grass to native vegetation such as pollinator gardens or native prairie gardens, and directing roof runoff to rain barrels, slows the flow of runoff from the landscape to local storm sewers, streams and Lake Erie.	Homeowners	10	2019
Summary of Planned Activities: At least one Rain Barrel Workshop will be conducted in the community, with at least 10 participants. Each participant will construct a rain barrel to install at his/her residence.						
Comments:						
Watershed-friendly Landscaping: Rain Garden Installation and/or Sustainable Lawnscape Installation	Cuyahoga SWCD	At least 1 commercial or institutional property owner or 2 community residents will install rain gardens or other sustainable landscapes, including reduction of turfed areas.	1. Slow It Down: Converting impervious surfaces and turf areas from grass to native vegetation such as pollinator gardens or native prairie gardens, and directing roof runoff to rain barrels, slows the flow of runoff from the landscape to local storm sewers, streams and Lake Erie. 2. Spread It Out: Disconnecting and directing downspouts and other runoff to rain gardens effectively spreads runoff over the landscape instead of concentrating it in storm sewers, where it is transported directly to local creeks, rivers and Lake Erie.	Commercial/institutional properties, Homeowners.	2	2019
Summary of Planned Activities: At least 1 commercial or institutional property owner or 2 community residents will install rain gardens or other sustainable landscapes, including reduction of turfed areas.						
Comments:						
Tree Planting. Maintenance and Pledge, Giveaways, including Tree Seed Collection & Propagation	Cuyahoga SWCD	Conduct at least one tree-planting event.	Soak It In: Trees intercept and infiltrate rainwater before it can be converted to runoff. Likewise, increasing the organic content of urban and suburban soils increases their infiltrative/storage capacity.	Residents, businesses, community organizations, churches, synagogues and other religious institutions. Especially those in riparian areas.	10	2019
Summary of Planned Activities: Conduct at least one tree-planting event, with at least 10 participants.						
Comments:						

Green Yards & Healthy Homes 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	2019
Summary of Planned Activities: Conduct at least one workshop, reaching at least 10 residents.						
Comments:						
Storm Drain Stenciling & Storm Drain Art	Cuyahoga SWCD	Conduct at least one stenciling event in the community.	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	2019
Summary of Planned Activities: Conduct at least one stenciling event in the community, reaching at least 10 residents.						
Comments:						
Riparian Invasive Species Management/Plant Pulls	Cuyahoga SWCD	Conduct at least one invasive species management/plant pull event in the community.	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	2019
Summary of Planned Activities: Conduct at least one invasive species management/plant pull event in the community.						
Comments:						
Citizen Participation in Watershed Planning and Management	Cuyahoga SWCD	At least one citizen participates in water quality monitoring, and/or at least 5 citizens provide input on a watershed or stormwater management plan for the community/watershed.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents	0	2019
Summary of Planned Activities: At least one citizen participates in water quality monitoring, and/or at least 5 citizens provide input on a watershed or stormwater management plan for the community/watershed.						
Comments:						
<b>ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)</b>						
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			No		No	
Summary of Results or Activities: <b>See following pages.</b>						
Comments:						
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective	
Storm Sewer System Map			No		No	
Comments:						
BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective	
HSTS Mapping and List			No		No	
Comments:						

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
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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. <a href="http://www.ccbh.net/stormwater">http://www.ccbh.net/stormwater</a>	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 2019 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 2018 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	0	0	N/A

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	26	26	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)

See following page

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:

- 1) Pleasant Valley Road
- 2) Barret Road, Olmsted Township
- 3) Abbey Road Bridge 02.35, North Royalton
- 4) Adele Lane Culvert C-00.04, Olmsted Township
- 5) Westwood Lane Culvert C-00.08, Olmsted Township
- 6) Harris Road Bridge 01.31, Broadview Heights

Consultant Design:

- 7) Warrensville Center Road, North Randall
- 8) Emery Road, North Randall
- 9) Northfield Road, North Randall
- 10) Towpath Trail Stage 1, Cleveland
- 11) Wallings Road, Broadview Heights
- 12) Royalton Road, North Royalton
- 13) North Main Street, Chagrin Falls Township
- 14) Fitch Road TLCI Sidewalk, Olmsted Township
- 15) Cook Road TLCI Sidewalk, Olmsted Township
- 16) Babbitt Road, Euclid
- 17) Lakeland Boulevard, Euclid
- 18) St. Clair Avenue, Euclid
- 19) E. 260<sup>th</sup> Street, Euclid
- 20) Bluestone Boulevard, Euclid
- 21) Schady Reserve Subdivision No. 4, Olmsted Township
- 22) Bradley Road Culvert C-00.67, North Olmsted
- 23) Bradley Road Culvert C-05.44, Westlake
- 24) North Main Street Bridge 00.12, Chagrin Falls Township
- 25) Stone Road Bridge, 00.98, Independence
- 26) West 41<sup>st</sup> Street Bridge 01.05, Cleveland

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites	# of Sites Inspected	Average Frequency	Effective
Site Inspection Procedures	Michael Tworzylko, 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	5	31	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~~  
 Royalton Road - 2 Reviews  
 Runway 6/24 Safety Area Improvements Project 4 - 8 Reviews  
 Runway 6/24 Safety Area IMprovements Project 3 - 8 Reviews  
 Runway 6/24 Safety Area Improvements Project 2 - 1 review  
 Bagley Rd./Pleasant Valley Rd. Roadway Widening - 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 Tworzylko 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	26	3	Yes
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Summary of Results or Activities: Consultant Design:  
 1) Towpath Trail Stage One Cleveland  
 2) Schady Reserve Subdivision No. 4 Olmsted Township  
 3) ~~Avery Road Bridge 04.16 in Broadview Heights (1 site plan)~~  
 4) ~~Highland Road Bridges 00.43, 00.34, 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~~

Cook and Stearns Road - 1 Review  
 Cuyahoga Convention Center Hotel - DOPW - 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	20	20	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
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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
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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.
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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 Pecedures	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 distributor information to applicable DPW staff.	Yes	A Good House-keeping seminar was held at the Valley View Facility.	Suprevisors at Valley View, York Road and Brookpark Road Facilities and the general CCDPW employee	10	Yes

Summary of Activity: A Good Housekeeping seminar was held at the Valley View Facility 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	2	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: 76 yds. <del>Used motor oil: 0 gal*</del> <del>Anti-freeze: 0 gal*</del> <del>*These quantities are not disposed of; they are sold to a recycler.</del>	Scrap steel: 20.30 tons Construction debris: 1252 yds. Asphalt grindings: 3 tons	Used motor oil: 2,485 gal.* Antifreeze: 110 gal.* Contaminated fuel: 110 gal.*  *These quantities are not disposed of; the County pays a recycler to recycle them.
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BMP (mechanism)	Covered?	Tons Used	Summarize Measures Taken to Minimize Usage	
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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.	
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BMP (mechanism)	Procedures Developed?	Gallons Used	Summarize Measures Taken to Minimize Usage	
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Pesticide & Herbicide Usage	Yes	0 Gallons	Follow manufacturer instructions, with some products dilution is as effective.	
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BMP (mechanism)	Procedures Developed?	Pounds Used	Summarize Measures Taken to Minimize Usage	
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Fertilizer Usage	Yes	0 Pounds	Follow product labels for application rates. Educate NOT to over fertilize.	
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BMP (mechanism)	Procedures Developed?	Document Amount of Material Collected and Properly Disposed		
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Street Sweeping	Yes	70 tons disposed of in 2018.		
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BMP (mechanism)	Summarize Any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality			
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Flood Management Projects	None.			
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BMP (mechanism)	Summary			
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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.
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Comments:

\*\*and John Pinter, Fleet Services Manager/Equipment Superintendent

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.	2019
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: *and John Pinter, Fleet Services Manager/Equipment Superintendent				
<b>PROPOSED CHANGES TO YOUR SWMP (IF ANY)</b>				
<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.				
<b>VARIANCES GRANTED (IF ANY)</b>				

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

N/A.

**ADDITIONAL INFORMATION**

*Please add any additional comments or attachments below.*

None