



**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> 2021		<b>Ohio EPA Facility Permit Number:</b> 3GQ00012*CG	
<b>Name of MS4:</b> CITY OF CLEVELAND			
<b>Mailing Address:</b> 12302 KIRBY AVE			
<b>City:</b> CLEVELAND		<b>State:</b> OH	<b>Zip Code:</b> 44108
<b>Country:</b> USA		<b>County:</b> CUYAHOGA	
<b>Primary Contact:</b> RAMONA LOWERY		<b>Title:</b> COMMISSIONER	
<b>Email Address:</b> rlowery@clevelandwpc.com		<b>Phone:</b> (216) 664-2750	<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.

**Upload File Name for Table of Organization:** Visio-2018 Stormwater Management Organization.pdf  
 Please see "supplemental information" for a copy of the City of Cleveland's MS4 Stormwater Management Program Manual, which details how the stormwater management program is developed and implemented across multiple position, agencies and departments. It also includes copy of the various MOUs the City has in place with other agencies to assist with implementing this program.

**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:</b> Jennifer Heard	<b>Title:</b> Chief Civil Engineer
<b>Signature:</b> Electronically submitted by Waterpollutioncontrol	<b>Date:</b> Electronically submitted on 04/04/2022

**PUBLIC EDUCATION AND OUTREACH**

**Estimate Your Permit Area of Total Population:** 372624

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	% Target Audience	Effective
Community Presentations	Cuyahoga SWCD	Conduct at least on 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.	General public	10	Yes

Summary of Results: January 28, 2021 Green Palette Webinar: Stormwater, Sustainability and Soils. Friends of Euclid Creek hosted this event virtually. 13 people attended and received soil testing kits.

March 25, 2021 Curbing the Consequences - How Trees are Taking Root for Stormwater and Climate Change. Cuyahoga SWCD hosted this event virtually. 175 people attended, 23 were from Cleveland.

March 18, 2021 Rocky River Rain Garden 101. Friends of Euclid Creek hosted this event virtually. 92 people attended, 6 were from Cleveland.

April 2, 2021 New Life Cathedral meeting and presentation on native plantings. Cuyahoga SWCD hosted this event in the City of Cleveland. 5 people attended.

April 14, 2021 Lee Rd Baptist Church meeting and presentation on native plantings. Cuyahoga SWCD hosted this event in the City of Cleveland. 6 people attended.

April 15, 2021 Your Backyard Stream: An Owner's Manual. Friends of Euclid Creek hosted this event virtually. 36 people attended, 1 was from Cleveland

July 19, 2021 Westlake Monday Meetup: Dover Ditch Stream Restoration Tour. Cuyahoga SWCD hosted this event in the City of Westlake. 21 people attended, 1 was from Cleveland.

September 1, 2021 Conservation Class. Cuyahoga SWCD hosted this event virtually which included the requirement of individuals taking action to get certified. 16 people attended, 1 was from Cleveland.

September 8, 2021 Native Plant presentation. Cuyahoga SWCD hosted this event in the City of Cleveland. 58 people attended.

September 15, 2021 Master Rain Gardener Volunteer Recognition and Wildwood Tour. Cuyahoga SWCD hosted this event in the City of Cleveland. 25 people attended.

September 25, 2021 Cuyahoga AOC/CHEERS. Cuyahoga SWCD hosted this event in the City of Cleveland. 30 people attended.

October 21, 2021 Cleveland Catholic Diocese School Programs Presentation. Cuyahoga SWCD hosted this event virtually. 19 people attended.

November 9, 2021 Your Backyard Stream: An Owner's Manual - virtual presentation w/CRWP. Cuyahoga SWCD hosted this event virtually. 51 people attended, 2 were from Cleveland.

December 31, 2021 ON DEMAND: Who we are and what we do. Friends of Euclid Creek hosted this event virtually. 18 people attended, 2 were from Cleveland.

December 31, 2021 ON DEMAND: Let the Flare See the Air. Friends of Euclid Creek hosted this event virtually. 8 people attended, 1 was from Cleveland.

December 31, 2021 ON DEMAND: Green Yards Healthy Homes. Friends of Euclid Creek hosted this event virtually. 15 people attended, 1 was from Cleveland

Comments:

School-based presentations and annual poster contest	Cuyahoga SWCD	Reach approximately 10 of school aged children	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers/students	10	Yes
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Summary of Results: March 25, 2021 Sum of the Parts - St. Mark's. Cuyahoga SWCD hosted this event in the City of Cleveland. 148 people attended.

May 13, 2021 St Mark's Enviroscape. Cuyahoga SWCD hosted this event in the City of Cleveland. 148 people attended.

May 18, 2021 School Programs Presentation ESC - NEOSS. Cuyahoga SWCD hosted this event in the City of Independence. 17 people attended, 3 were from Cleveland.

September 24, 2021 St Mark's Waterfest. Cuyahoga SWCD hosted this event in the City of Cleveland. 56 people attended.

November 18, 2021 CIS Elementary Tree Education. Cuyahoga SWCD hosted this event in the City of Cleveland. 105 people attended.

Comments:

Teacher Workshop	Cuyahoga SWCD	At least one teacher workshop per year	We all live in a watershed and our actions on the land directly affect the quality of our water	Teachers	10	Yes
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Summary of Results: June 22, 2021 Project WET, Aquatic Wild 2021. Cuyahoga SWCD hosted this event in the City of Parma. 16 people attended, 2 were from Cleveland.

June 23, 2021 Project Learning Tree Green Schools/Green Jobs 2021. Cuyahoga SWCD hosted this event in the City of Brecksville. 16 people attended, 2 were from Cleveland.

August 11, 2021 CSU STEMM Conference 2021. Cuyahoga SWCD hosted this event in the City of Cleveland. 23 people attended.

December 13, 2021 NOWCorps Project Learning Tree 2021. Cuyahoga SWCD hosted this event virtually. 14 people attended, 3 were from Cleveland.

Comments:

<p>Cuyahoga SWCD Newsletter/Euclid Creek Newsletter</p>	<p>Cuyahoga SWCD</p>	<p>Quarterly distribution</p>	<p>Waste - There Is No Away Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.</p> <p>Sensible Salting - 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.</p> <p>Backyard Conservation - Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>Trees - Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	<p>General public</p>	<p>10</p>	<p>Yes</p>
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Summary of Results: 480 Cuyahoga SWCD newsletters were placed on display three times a year in Cleveland in 2021 (15 newsletters were displayed at 30 Cleveland Public library branches, one County library, and at the City).

2,382 Cleveland households received the Cuyahoga SWCD Newsletter three times a year in 2021.

75 Euclid Creek Watershed newsletters were placed on display once in Cleveland in 2021. (25 were placed at the City Library, 25 at Collinwood Recreation Center, and 25 at Water Pollution Control).

64 Cleveland households received the Euclid Creek Newsletter in 2021.

Comments:

<p>Distribution of printed and digital educational materials</p>	<p>Cuyahoga SWCD/City of Cleveland</p>	<p>Quarterly distribution</p>	<p>Waste - There Is No Away Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.</p> <p>Sensible Salting - 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.</p> <p>Backyard Conservation - Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>Trees - Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	<p>General public</p>	<p>10</p>	<p>Yes</p>
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Summary of Results: A Litter Free stormwater poster was displayed in the community.

Cuyahoga SWCD provided the community with three stormwater rack cards. These are posted on our Stormwater Education webpage - which we sent to the community to link to on their page. Information also sent to the community thru Dropbox to be distributed to residents via email, community newsletter and posted on community website.

1. Slow it Down: Shrink Your Lawn
2. Soak it In: Soil Amendments
3. Spread it Out: Rain Gardens

Cuyahoga SWCD staff writes and posts a weekly blog on their website. The community is encouraged to link to the blog on their website and repost the messages on their facebook pages and also to their residents via e-blast, etc. In 2021, there were 51 blogs written on the Cuyahoga SWCD website. Topics are on soil and water conservation particularly stormwater and watershed tips. A full list can be found on [www.cuyahogawcd.org/blog](http://www.cuyahogawcd.org/blog)

Cuyahoga SWCD provided the community with three sets of monthly conservation tips via Dropbox to be distributed to residents via email, social media, community newsletter and posted on the community's website. Content focuses on watershed friendly practices and use of native plants in landscaping to encourage stormwater uptake.

Cuyahoga SWCD maintains a Facebook, Instagram, Twitter, and LinkedIn account with at least weekly posts. Cuyahoga SWCD encourages the community to share these accounts with their community members. Total followers = 5,809 (Facebook - 4840, Instagram - 739, Twitter - 70, LinkedIn - 225)

Comments:

Distribution of DBWP Annual Newsletter and 15 email newsletters	Doan Brook Watershed Partnership (DBWP)	The number of residents indicating knowledge of storm water issues and solutions will increase by 10% by the end of the 5-year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Watershed residents	1	Yes
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Summary of Results: 15 email newsletters in 2021 were opened a combined 14,017 times and 4,097 residents received mailed annual newsletter

Comments:

DBWP Website	DBWP	Weekly website updates	We all live in a watershed and our actions on the land directly affect the quality of our water.	Watershed residents	12	Yes
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Summary of Results: 7,931 unique users, 11,088 individual sessions, and 21,753 page views in 2021

Comments: Cleveland population in the Doan Brook Watershed is: 63,920. Target audience percentages based on this number.

Doan Brook Watershed Virtual PowerPoint Presentations	DBWP/Shake Lakes Garden Club, Judson Manor, Forest Hills/ Rotary Club of Cleveland	The number of residents indicating knowledge of storm water issues and solutions will increase by 10% by the end of the 5- year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water.  Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity.	Watershed residents	1	Yes
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Summary of Results: January 23: Shaker Lakes Garden Club DBWP educated attendees about non-point source pollution and local watersheds  
 March 2, 10, 18, 22, 30, April 7: Bringing Nature Home Series DBWP and Nature Center at Shaker Lakes educated attendees about sustainable landscaping, non-point source pollution, and stormwater management at home.  
 March 26: Judson Manor DBWP educated attendees about non-point source pollution and local watersheds  
 March 28: Forest Hills DBWP educated attendees about non-point source pollution and local watersheds  
 October 20: Rotary Club of Cleveland DBWP educated attendees about non-point source pollution and local watersheds

Comments:

Doan Brook Watershed PowerPoint Presentations	Mastery School of Hawken/Laurel School/Case Western Reserve University/Environmental Heroes Program	The number of residents indicating knowledge of storm water issues and solutions will increase by 10% by the end of the 5- year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water.  Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity.	Students	1	Yes
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Summary of Results: August 5: Mastery School of Hawken presentation and panel DBWP educated attendees about non-point source pollution and local watersheds

September 27: Laurel School DBWP educated attendees about non-point source pollution and local watersheds

November 17: CWRU DBWP educated attendees about non-point source pollution and local watersheds

Comments:

Watershed Brochures	Water Pollution Control	Increase residents and property owner's stormwater management best practices awareness by at least 10% over the 5 year permit term.	Stronger Together	City of Cleveland residents and property owners	1	Yes
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Summary of Results: Five tri-fold brochures were created for distribution and placement on the WPC website.

Comments: The content provided the basis for watershed content on WPC's website.

Riversweep Stream Cleanup	Water Pollution Control	Increase residents and property owner's stormwater management best practices awareness by at least 10% over the 5 year permit term.	1. Lake Erie Starts Here; 2. Stronger Together	Cleveland residents and property owners.	1	Yes
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Summary of Results: 18 volunteers. A WPC representative spoke and distributed literature about the importance of stormwater management and how stream cleanups help water quality and improve stream flow.

Comments: The themes emphasized how everyone working together positively impacts local water quality.

Targeted mailing - Homeowners, Yard Waste Brochure	Cuyahoga Soil & Water Conservation District	At least 10% of the community's residents will be reached	Waste There Is No Away - Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.	Residents/homeowners	10	Yes
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Summary of Results: Brochure What to do with Yard Waste mailed out to 17,253 households in Cleveland.

Comments:						
Targeted Mailing - Streamside Property Owner	Cuyahoga SWCD	At least 5% of those reached by the message will seek additional information	We all live in a watershed and our actions on the land directly affect the quality of our water.	Streamside Property Owners	100	Yes
Summary of Results: Life at Water's Edge: Enhance the Stream in Your Backyard and Beyond. For the 6th year in a row, Cuyahoga SWCD mailed watershed tips to Cleveland residents. 129 people received the mailing. Friends of Euclid Creek sent a second mailing to the same set of streamside property owners about rain barrels and slowing down water in their yards.						
Comments:						
City of Cleveland Student-led Rain Barrel Workshops	City of Cleveland Office of Sustainability/Cleveland Division of Water/Youth Opportunities Unlimited/NEORSD/Community Development Corporations (CDCs)/Cleveland Public Library	Number of workshops hosted - 2021; Number of rain barrels distributed - 250; Number of residents reached - >400 residents	Protect and conserve local water resources by reducing stormwater runoff at its source, reducing the impact of pollutants on local waterways, reduce residential flooding, as well as promoting water conservation practices.	Homeowners/residents, City of Cleveland employees, community leaders, and students employed through Mayor Jackson's Summer Youth Employment Program.	1	Yes
Summary of Results: 12 rain barrel workshops hosted in 2021 at various location throughout Cleveland, including Cleveland Public Library branches, community development corporations, community gardens, and local farmers' markets.						
250 barrels distributed in 2021.						
More than 400 residents reached.						
Comments:						
Big Creek Stream Clean Up	Water Pollution Control	Increase residents and property owner's stormwater management best practices awareness by at least 10% over the 5 year permit term.	1. Lake Erie Starts Here; 2. Stronger Together	City of Cleveland residents and property owners.	1	Yes
Summary of Results: 14 volunteers. The themes emphasized how everyone working together can positively impact the local water quality.						
Comments:						
Anti-Litter Advertisements (Billboards and DriveTV ads)	Cuyahoga SWCD	At least 6% of licensed drivers and car passengers will receive a message about anti-littering.	Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.	Licensed drivers/passengers	6	Yes
Summary of Results: Cuyahoga SWCD placed an anti-litter advertisement for the month of October on all 14 Bureau of Motor Vehicles Drive TV. It is assumed that a quarter of community licensed drivers visit a Cuyahoga County BMV each year to renew their license, and that half of those visiting the BMV will view the advertisement.						
An anti-litter billboard campaign "Keep CLE Litter Free" was held in October of 2021. 5 Billboards in Cleveland had the advertisement with 11,402,257 impressions estimated by the billboard company used. Impressions are the total number of exposures to the advertisement. One person can receive multiple exposures over time. If one person was exposed to an advertisement five times, this would count as five impressions. Impressions are calculated by multiplying the number of Spots by Average Persons.						
Comments:						

National Stormwater Awareness Week	Water Pollution Control	Increase residents and property owner's stormwater management best practices awareness by at least 10% over the 5 year permit term.	1. Lake Erie Starts Here; 2. Stronger Together	City of Cleveland residents and property owners.	1	Yes
Summary of Results: The event was highlighted daily on social media (Facebook and Twitter). The week culminated with 12 volunteers at the Mill Creek Falls stream clean up.						
Comments: Many volunteers learned about the clean up through WPC's media posts.						
Keep Cleveland Watersheds Clean Campaign	Water Pollution Control	Increase residents and property owner's stormwater management best practices awareness by at least 10% over the 5 year permit term.	Stronger Together	City of Cleveland residents and property owners	1	Yes
Summary of Results: Yards signs were posted throughout the five main watersheds in Cleveland. The signs were watershed specific and the primary message was "A clean watershed starts with keeping storm drains clean."						
Comments: Part of the campaign coincided with Stormwater Awareness Week and stream clean up in the Mill Creek Watershed						
Stream Cleanup	Water Pollution Control	Increase awareness of stormwater best management practices by 10%.	Lake Erie Starts Here	Residents and property owners in Cleveland	1	Yes
Summary of Results: River Sweep - 23 registered volunteers worked together to clean up a dump site and unblock two (2) abandoned catch basins.						
Comments:						
Proper Mulcing Billboard	Cuyahoga SWCD	Reach at least 1% of licensed drivers and car passengers	Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.	Licensed drivers/car passengers	1	Yes
Summary of Results: A proper tree planting billboard campaign "Too Mulch of a Good Thing" was held in May 2021 on one Cuyahoga County billboard. 1,135,404 impressions were estimated by the billboard company used. Impressions are the total number of exposures to the advertisement. One person can receive multiple exposures over time. If one person was exposed to an advertisement five times, this would count as five impressions. Impressions are calculated by multiplying the number of Spots by Average Persons.						
Comments:						
Virtual National Public Works & Safety Week Openhouse	Water Pollution Control	Increase residents and property owner's stormwater management best practices awareness by at least 10% over the 5 year permit term.	Stronger Together	Residents and property owners in Cleveland	1	Yes
Summary of Results: Resources compiled and placed online to help teachers educate their students about the value and necessity of public works. The resources (videos, worksheets, articles, discussions, templates, instructions for games and experiments) remained available for two weeks, through the end of the school year, so teachers could continue to use the content. 8 teachers, 7 schools, and 120 students participated. Promoted the "Stronger Together" theme, encouraged children to be observant and learn/practice habits that positively impact the local water quality.						
Comments: Several teachers provided unsolicited positive feedback.						
1st Annual Cuyahoga River Rally	Water Pollution Control (partnered with Canlway Partners, and the Cleveland MetroParks' Watershed Volunteer Program	10% increase in the number of Cleveland residents and property owners demonstrating awareness of stormwater best management practices.	1. Lake Erie Starts Here; 2. Stronger Together	City of Cleveland residents and property owners	1	Yes
Summary of Results: At least 100 people visited the WPC booth.						

Comments: Many people said the previously had not made the connection between sewer maintenance and clean water efforts.						
Community/Ward Meeting: Wards 6 & 16	Water Pollution Control	10% increase in the number of Cleveland residents and property owners demonstrating awareness of stormwater best management practices.	Stronger Together	City of Cleveland residents and property owners	1	Yes

Summary of Results: More than 100 people attended the event

Comments: A WPC representative was invited to talk to attendees about WPC's sewer-related services and its role as the City of Cleveland's Stormwater Manager.						
Only Rain Down the Storm Drain and No Dumping campaigns	Water Pollution Control	10% increase in the number of Cleveland residents and property owners demonstrating awareness of stormwater best management practices.	1. Lake Erie Starts Here; 2. Stronger Together	City of Cleveland residents and property owners	1	Yes

Summary of Results: WPC continued to use social media and in-person opportunities to promote this campaign and raise awareness that everyone can make a difference by doing small things in their personal lives to help the city comply with environmental regulations that protect human and environmental health and promote clean water.

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
Presentations	CSWCD	Conduct at least 3 workshops/presentations	We all live in a watershed and our actions on the land directly affect the quality of our water.	General public; teachers/students; and/or stormwater professionals	10	2022

Summary of Planned Activities: Presentation will be given to one civic, scout or student group in the community.

Comments: None

CSWCD Newsletter	CSWCD	At least 5% of those reached by the message will seek additional information	<p>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.</p> <p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.</p> <p>Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	General public	10	2022
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Summary of Planned Activities: Cuyahoga SWCD Newsletter will be mailed to residents on our mailing list 3 times during the course of the year, and distributed at community hall and in the local library/nature center.

Comments: None

School-based presentations and annual poster contest	CSWCD	Recruit at least 10 participants.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers/students	10	2022
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Summary of Planned Activities: School-based and/or civic group presentations and/or an annual poster contest will be made available to school districts serving the community.

Comments: None

Multi-Media Education	Water Pollution Control	Generate 2000 impressions	Various	WPC visitors	50	Daily
Summary of Planned Activities: Expand the use of monitors displaying content about WPC and stormwater best management practices and green infrastructure.						
Comments: None						
Education Mobile Trailer	Water Pollution Control	TBD	Various	Residents and property owners in Cleveland	5	TBD
Summary of Planned Activities: Design and create content for a mobile trailer to educate the public about WPC and stormwater management.						
Comments: None						
Keep Cleveland Watersheds Clean	Water Pollution Control	Increase residents & property owner's stormwater best management practices awareness by at least 10% over the 5 year permit term.	TBD	City of Cleveland residents and property owners	2	TBD
Summary of Planned Activities: Expand the campaign						
Comments:						
Target Mailings	CSWCD	At least 10% of the community's residents will be reached	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents/Homeowners	10	2022
Summary of Planned Activities: Printed materials will be mailed to 10% of households in the community about proper leaf disposal.						
Comments: None						
Teacher Workshop	CSWCD	Hold at least 1 workshop each year	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers	10	2022
Summary of Planned Activities: TBD						
Comments: N/A						
Only Rain Down the Storm Drain and No Dumping	Water Pollution Control	Increase residents & property owner's stormwater best management practices awareness by at least 10% over the 5 year permit term.	Only Rain Down the Storm Drain/No Dumping	City of Cleveland residents, property owners, and City of Cleveland Employees	2	TBD
Summary of Planned Activities: Expand this campaign						
Comments:						

Annual County-wide teacher workshop	Cuyahoga SWCD	Conduct at least one workshop during the year	We all live in a watershed and our actions on the land directly affect the quality of our water.	Teachers	10	School-based and/or civic group presentations and/or an annual poster contest will be made available to school districts serving the community.
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Summary of Planned Activities: TBD

Comments:

DBWP website	DBWP	Increase the number of hits and Facebook likes by 10%	To educate people about the Doan Brook Watershed and its issues. Provide data, volunteer opportunities and educational and recreational event opportunities.  Every storm drain and small tributary flows to Lake Erie via Doan Brook and other local streams.	Watershed residents	1	Monthly throughout 2022
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Summary of Planned Activities:

Visitors will access information, scientific data and educational materials at [doanbrookpartnership.org](http://doanbrookpartnership.org). They will register for DBWP events and like our Facebook page.

Comments:

Newsletter	DBWP	The number of residents indicating knowledge of storm water issues and solutions will increase by 10% by the end of the 5- year permit term.	We all live in a watershed and our actions on the land directly affect the quality of our water. Every storm drain and small tributary flows to Lake Erie via Doan Brook and other local streams.	Watershed residents	1	At least monthly throughout 2022 for email newsletters. One mailed newsletter in the Fall.
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Summary of Planned Activities: Email newsletters will be distributed to residents on email contact list at least 12 times during the course of the year. Mailed newsletter will be distributed once per year to residents on physical mailing contact list.

Comments:

Presentation Literature at events and Doan Brook Watershed PowerPoints	DBWP	Increase the number of people educated by the power point by at least 5%	We all live in a watershed and our actions on the land directly affect the quality of our water.  Every storm drain and small tributary flows to Lake Erie via Doan Brook and other local streams.	Watershed residents	1	As requested by community groups
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Summary of Planned Activities: Presentations will include information on rain barrels, rain gardens, green infrastructure, sustainable landscaping and the history and hydrology of the Doan Brook Watershed.

Comments:

City of Cleveland student-led rain barrel workshops	City of Cleveland Office of Sustainability/Cleveland Division of Water/Youth Opportunities Unlimited, NEORSD/local Community Development Corporations/Cleveland Public Library	10-12 student-led rain barrel workshops held during 2022. 400-450 residents reached via the workshops. 300 rain barrels distributed.	Protect and conserve local water resources by reducing stormwater runoff at its source, reducing the impact of pollutants on local waterways, reduce residential flooding, as well as promoting water conservation practices.	Homeowners/residents, City of Cleveland employees, community leaders and students employed through Mayor Bibb's Summer Youth Employment Program.	1	June - August 2022
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Summary of Planned Activities: 10-12 student led workshops hosted in 2022 at various City of Cleveland facilities, including Cleveland Public Library branches and other community-based locations. Goal of reaching 400+ residents through workshops. Reach 200+ residents through education/outreach programming. Goal of distributing 300 rain barrels to residents

Comments:

**PUBLIC INVOLVEMENT AND PARTICIPATION**

BMP (mechanism)	Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate Of People Participated	Effective
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Stormwater pledges and dog photo contest	Cuyahoga SWCD	N/A	<p>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.</p> <p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.</p> <p>Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	General public	14	Yes
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Summary of Results: December 20, 2021 Salt Pledge from website. This pledge was promoted countywide. 44 people engaged with the pledge, 4 were from Cleveland.

December 31, 2021 Watershed Champions. This pledge was promoted countywide. 46 people engaged with the pledge, 4 were from Cleveland.

December 20, 2021 Stow It Don't Throw It pledge from website. This pledge was promoted countywide. 74 people engaged with the pledge, 3 were from Cleveland.

December 20, 2021 Dog Poop pledge from website. This pledge was promoted countywide. 28 people engaged with the pledge, 3 were from Cleveland.

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	General public	1	Yes
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Summary of Results: December 31, 2021 FOEC Board Meetings. Friends of Euclid Creek board members meet monthly to create watershed programming and care for conservation sites. 8 people are current board members. The FOEC board met 11 times in 2021. 1 was from Cleveland

Comments:

Rain Barrel Art & Installation Workshop	CSWCD	At least one Rain Barrel Workshop will be conducted in the community.	Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.	Homeowners	36	Yes
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Summary of Results: April 29, 2021 Rain Barrel Pick Up event - Seven Hills. Cuyahoga SWCD hosted this event in the City of Seven Hills. 37 people attended, 5 were from Cleveland.

May 11, 2021 Rain Barrel Pickup Event - Olmsted Township. Cuyahoga SWCD hosted this event in the Olmsted Township. 20 people attended, 4 were from Cleveland.

May 13, 2021 Rain Barrel Pick Up event - Brecksville. Cuyahoga SWCD hosted this event in the City of Brecksville. 21 people attended, 5 were from Cleveland.

May 20, 2021 Rain Barrel Pickup Valley View. Cuyahoga SWCD hosted this event in the Village of Valley View. 23 people attended, 5 were from Cleveland.

June 15, 2021 Rain Barrel pick up event - Garfield Heights. Cuyahoga SWCD hosted this event in the City of Garfield Heights. 18 people attended, 4 were from Cleveland.

August 13, 2021 Rocky river rain barrel pickup. Cuyahoga SWCD hosted this event in the City of Rocky River. 25 people attended, 7 were from Cleveland.

June 9, 2021 Rain Barrel Pickup Maple Heights. Cuyahoga SWCD hosted this event in the City of Maple Heights. 20 people attended, 6 were from Cleveland.

Rain Barrel workshop  
Held in Independence, 6 residents of Cleveland participated and built a rain barrel.

August 5, 2020  
Rain Barrel workshop  
Held in University Heights, 7 residents of Cleveland participated and built a rain barrel.

August 12, 2020  
Rain Barrel workshop  
Held in Newburgh Heights, 5 residents of Cleveland participated and built a rain barrel.

August 19, 2020  
Rain Barrel workshop  
Held in Seven Hills, 3 residents of Cleveland participated and built a rain barrel

September 23, 2020  
Rain Barrel workshop  
Held in Gates Mills, 3 residents from Cleveland participated and built a rain barrel.

September 23, 2020  
Rain Barrel Workshop  
Held in Garfield Heights, 4 residents from Cleveland participated and built a rain barrel.

October 8, 2021  
Rain Barrel workshop  
Held in Oakwood, 1 resident of Cleveland participated and built a rain barrel

Comments:

Stream Cleanup	CSWCD	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.	General public and users of the river/watershed resources/fishing clubs, canoeists/kayakers, hikers, scouts and birders.	68	Yes
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Summary of Results: April 26, 2021 Euclid Big Clean ECWP Cleanup. Cuyahoga SWCD hosted this event in the City of Euclid. 17 people attended, 1 was from Cleveland.  
 May 8, 2021 South Euclid City Sweep. Cuyahoga SWCD hosted this event in the City of South Euclid. 7 people attended, 1 was from Cleveland.  
 May 15, 2021 Villa Angela Beach Cleanup and Invasive Pull. Cuyahoga SWCD hosted this event in the City of Cleveland. 15 people attended.  
 June 5, 2021 Big Creek Cleanup. Cuyahoga SWCD hosted this event in the City of Brooklyn, City of Cleveland, City of Parma, City of Parma Heights. 61 people attended, 20 were at the Cleveland site.  
 June 5, 2021 Rocky River Cleanup 2021. Cuyahoga SWCD hosted this event in the Brunswick, OH, City of Lakewood, City of North Olmsted, City of Rocky River, City of Strongsville. 40 people attended, 1 was from Cleveland  
 July 14, 2021 July Acacia cleanup. Cuyahoga SWCD hosted this event in the Lyndhurst. 10 people attended, 1 was from Cleveland.  
 August 1, 2021 Lyndhurst August Acacia Cleanup. Cuyahoga SWCD hosted this event in the Lyndhurst. 12 people attended, 1 was from Cleveland.  
 August 5, 2021 CWRU RA SWCD Gardens and Garbage. Cuyahoga SWCD hosted this event in the City of Cleveland. 14 people attended.  
 Cuyahoga SWCD hosted three ongoing virtual Litterati Cleanups in 2021. 34 people participated, 14 were from Cleveland.

Acacia Stream Cleanup

Three residents from Cleveland participated in this event.

June 27, 2020

Greenwood Farm Work Day at the Park

One resident from Cleveland participated in this event.

October 24, 2020

Euclid Creek South Euclid Fall Cleanup

Three residents from Cleveland participated in this event.

Individual Acts of Conservation online challenge

Five residents from Cleveland participated by cleaning up trash around their house and neighborhood.

Comments:

Rain gardens, Native Seeds and Plant Kits, Pollinator Planting Events, Invasive Management	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.	Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.	Homeowner/property owners	211	Yes
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Summary of Results: August 19, 2021 CWRU Greenwood Farm Work Day. Cuyahoga SWCD hosted this event in the City of Richmond Heights. 22 people attended, 20 were from Cleveland.  
 August 28, 2021 NWF Sacred Grounds garden installation - True Vine Missionary. Cuyahoga SWCD hosted this event in the City of Cleveland. 10 people attended.  
 October 15, 2021 NWF Sacred Grounds - Masjid Bilal - native plants installation. Cuyahoga SWCD hosted this event in the City of Cleveland. 20 people attended.  
 October 15, 2021 NWF Sacred Grounds - St Paul AME - native plant install. Cuyahoga SWCD hosted this event in the City of Cleveland. 10 people attended.  
 December 20, 2021 Native Plant Kit sales (Spring and Fall). Cuyahoga SWCD hosted this sale open to all Cuyahoga County Residents. 121 people purchased native plants, 20 were from Cleveland.  
 December 20, 2021 Native Plant bundle sale. Cuyahoga SWCD hosted this sale open to all Cuyahoga County Residents. 57 people purchased native plants, 6 were from Cleveland.  
 December 20, 2021 Native Seed Sales. Cuyahoga SWCD hosted this sale open to all Cuyahoga County Residents. 143 people purchased native plants, 18 were from Cleveland.  
 December 21, 2021 Soil Test kits distributed. Cuyahoga SWCD offered free soil kit tests to county residents. 344 people received free soil test kit, 107 were from Cleveland.

Comments:

Doan Brook and Dugway Brook Volunteer Stream Clean-Up	DBWP, Nature Center at Shaker Lakes, Larchmere Community Association, East Cleveland Parks Association, Case Western Reserve University, Vorys Law Firm, Girl Scout Troop 70224, Hawken School	Percent of Doan Brook mainstem to be swept by volunteer trash collectors: 10-30%  Percent of Dugway Brook in Forest Hill Park to be swept by volunteer trash collectors: 10%	We all live in a watershed and our actions on the land directly affect the quality of our water.	Watershed citizens	253	Yes
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Summary of Results: April 3 & 17, May 15 & 21, September 30: Volunteers collected trash and recyclables from the Doan Brook in Rockefeller Park and from the Doan Brook Gorge. Trash and recycling disposal was coordinated by the DBWP.

April 18: Volunteers collected trash and recyclables from the Dugway Brook in Forest Hill Park. Trash and recycling disposal was coordinated by the DBWP.

Comments:

DIY Rain Barrel Workshop at Nature Center Shaker	DBWP and Nature Center at Shaker	N/A	We all live in a watershed and our actions on the land directly affect the quality of our water.	Homeowners	24	Yes
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Summary of Results:

May 20: To adhere to COVID guidelines, no more than 8 homeowners per session were taught how to build a rain barrel with materials provided by the DBWP.

Comments:

Riparian Habitat Maintenance	DBWP, Case Western Reserve University, Nature Center at Shaker Lakes	N/A	Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity. Habitats other than lawn are preferable for healthy water quality.  We all live in a watershed and our actions on the land directly affect the quality of our water.	Watershed citizens & students	829	Yes
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Summary of Results: January 29, 30; February 28; March 14, 21, 28; April 4, 11, 18, 25; May 2, 4, 11, 16, 18, 21, 23, 27, 30; June 1, 6, 8, 13, 15, 20, 22, 27, 29; June 4, 6, 13, 18, 20, 25, 27; August 1, 3, 8, 10, 15, 17, 22, 24, 29, 31; September 5, 7, 12, 14, 19, 21, 26, 28, 30; October 3, 5, 6, 10, 12, 17, 19, 24, 26, 31; November 2, 7, 8: Students and volunteers removed invasive plants and planted native plants at historic sites on Lower Shaker Lake.

April 3 & 10: Volunteers prepped and planted 27 trees in Southerly Park.

September 25: Volunteers removed invasive plants from a site around the north branch of Doan Brook in celebration of National Public Lands Day.

Comments:

Educational Watershed Hikes	DBWP, Cuyahoga Arts and Culture, Bluestone Heights, Nature Center at Shaker Lakes, Hawken School	N/A	Hikers learn about the history and hydrology of local watersheds. They will learn about how the geology, topography, soil and water interact in different landscapes, like marshes & streams, to create our watershed. They learn how various land-use activities affect local watersheds and Lake Erie.	Watershed citizens and students	107	Yes
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Summary of Results:

June 12, July 24; August 14, October 9 & 18, December 8: DBWP hosted hiking through the Doan Brook Gorge and around Lower Shaker Lake.

Comments:

Doan Brook Family Fishing Workshops and Watershed Festivals	DBWP, City of Cleveland, NEORS, Cleveland Metroparks Youth Outdoors, University Circle Inc., Holden Parks Trust, ODNR, Cuyahoga Arts and Culture	Reach at least 350 people	We all live in a watershed and our actions on the land directly affect the quality of our water.  Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity. Habitats other than lawn are preferable for healthy water quality.	Watershed adults and children	351	Yes
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Summary of Results: April 10, May 22, June 26, September 11, October 23: The Annual Fishing Day held at Rockefeller Lagoon was cancelled due to COVID-19. Smaller workshops featuring free rods & reels, bait and fishing lessons enabled participants to fish stocked trout, catfish and bluegill.

Comments:

City of Cleveland Summer Rain Garden Program	City of Cleveland Office of Sustainability & Division of Water, Youth Opportunities Unlimited (YOU), Northeast Ohio Regional Sewer District (NEORS), local Community Development Corporations (CDCs), Cleveland Public Library branches.	Number of students educated on rain gardens as a stormwater reduction Best Management Practice. 2021 Goal: 20 students	Protect and conserve local water resources by reducing and diverting stormwater runoff and the impact of pollutants on local waterways. Rain gardens and bioretention cells are functioning systems, which require proper installation and maintenance.	Students employed by Youth Opportunities Unlimited	400	Yes
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Summary of Results: 2021 Summer Program:

- ¿ Maintained several rain gardens throughout the City, including Kerruish Park, Willard Park, and Michael Zone Recreation Center.
- ¿ Educated student workers about the benefits and functionality of rain gardens and bioretention.
- ¿ Educated student workers about the benefits of planting native species.
- ¿ 20 students educated on rain garden function and maintenance, and the benefits of planting native species.
- ¿ Maintained several rain gardens throughout the City, including Kerruish Park, Willard Park, and Michael Zone Recreation Center.
- ¿ Educated student workers about the benefits and functionality of rain gardens and bioretention.
- ¿ Educated student workers about the benefits of planting native species.
- ¿ 20 students educated on rain garden function and maintenance, and the benefits of planting native species.

Comments:

Water Quality Monitoring	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.	General public	82	Yes
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Summary of Results: April 17, 2021 Rocky River Volunteer Water Quality Monitoring Training. Cuyahoga SWCD hosted this event in the City of North Olmsted. 10 people attended, 4 were from Cleveland.

July 26, 2021 Euclid Creek Volunteer Water Quality Monitoring Training. Cuyahoga SWCD hosted this event in the City of South Euclid. 9 people attended, 3 were from Cleveland.

May 11, 2021 Euclid Creek Volunteer Water Quality Monitoring Training. Cuyahoga SWCD hosted this event in the City of Euclid. 9 people attended, 1 was from Cleveland.

May 17, 2021 Macro Monitoring Pilot Program Training. Cuyahoga SWCD hosted this event in the City of Strongsville. 6 people attended, 1 was from Cleveland.

May 23, 2021 Macro Monitoring Pilot Program Training 2. Cuyahoga SWCD hosted this event in the City of Berea. 8 people attended, 2 were from Cleveland.

June 16, 2021 Macro Monitoring Pilot Program Training 3. Cuyahoga SWCD hosted this event in the City of Berea. 8 people attended, 1 was from Cleveland.

July 23, 2021 Cahoon-Porter Volunteer Water Quality Monitoring Training. Cuyahoga SWCD hosted this event in the City of Bay Village. 9 people attended, 1 was from Cleveland.

October 4, 2021 Water Quality Monitoring Campus International HS. Cuyahoga SWCD hosted this event in the Hinkley Reservation. 67 people attended.

November 9, 2021 Citizen Scientist Stream Monitoring Training November 2021. Cuyahoga SWCD hosted this event in the City of North Olmsted. 8 people attended, 2 were from Cleveland.

Comments:

Hikes in the Doan Brook Parklands	DBWP, Famicos Foundation, Organic Connects, University Circle Inc., Cleveland Metroparks Watershed Volunteer Program	N/A	Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity. Habitats other than lawn are preferable for healthy water quality.	Watershed citizens	38	Yes
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Summary of Results: January 30: This hike took participants around Lower Lake. While hiking, participants learned how trees impact water quality in a multitude of ways.

March 6 & 20: This hike took participants on two different loops in Rockefeller Park. While hiking, participants learned about the importance of trees along Doan Brook to lower erosion and improve water quality.

March 22: This hike took participants around the Cleveland Lakefront Nature Preserve. While hiking, participants learned about the creation of the preserve and how it's important to Doan Brook and it's water quality

Comments:

City of Cleveland Student-led Rain Barrel Workshop	City of Cleveland Office of Sustainability & Division of Water, Youth Opportunities Unlimited, NEORS, Local Community Development Corporations, and Cleveland Public Library	12 workshops; 250 rain barrels distributed; 400 residents reached	Protect and conserve local water resources by reducing stormwater runoff at its source, reducing the impact of pollutants on local waterways, reduce residential flooding, as well as promoting water conservation practices.	Homeowners/residents, City of Cleveland employees, community leaders and students employed through Mayor Jackson's Summer Youth Employment Program.	1	Yes
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Summary of Results: 12 rain barrel workshops hosted in 2021 at various locations throughout Cleveland, including Cleveland Public Library branches, community gardens, community development corporations, and local farmers' markets.

250 barrels distributed in 2021.

More than 400 residents reached.

Comments:

Tree Planting, Maintenance, Propagation, Pledges and Giveaways	Cuyahoga SWCD	Conduct at least one tree planting event	Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.  We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents, businesses, community organizations, churches, synagogues and other religious institutions	108	Yes
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Summary of Results: April 29, 2021 Project Plant It St. Mark's. Cuyahoga SWCD hosted this event in the City of Cleveland. 49 people attended.

May 6, 2021 NUTS - float test & germination. Cuyahoga SWCD hosted this event in the City of Cleveland. 30 people attended.

May 6, 2021 Project Plant It Horizon Education Center. Cuyahoga SWCD hosted this event in the City of Cleveland. 10 people attended.

April 17, 2021 Tree Sale. Cuyahoga SWCD hosted this event in the City of Cleveland/Countywide. 91 people attended, 12 were from Cleveland

April 18, 2021 Rocky River Backyard Buffers Distribution Event #1. Cuyahoga SWCD hosted this event in the City of Lakewood. 63 people attended, 1 was from Cleveland.

May 18, 2021 Greenwood Farm Bioretention Maintenance and Tree Planting. Cuyahoga SWCD hosted this event in the City of Richmond Heights. 10 people attended, 1 was from Cleveland.

October 22, 2021 Legacy Tree Fund Planting, South Euclid. Cuyahoga SWCD hosted this event in the City of South Euclid. 21 people attended, 3 were from Cleveland.

October 22, 2021 Legacy Tree Program Planting - Parma. Cuyahoga SWCD hosted this event in the City of Parma. 6 people attended, 1 was from Cleveland.

December 6, 2021 Fall 2021 Rocky River Backyard Buffers. Cuyahoga SWCD hosted this event in the City of Lakewood. 35 people attended, 1 was from Cleveland

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 & Rain Barrel Art	CSWCD	At least one rain barrel workshop will be conducted in the community.	Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.  We all live in a watershed and our actions on the land directly affect the quality of our water.	Homeowners	10	2022

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 and Sustainable Land Management	CSWCD	At least 1 commercial or institutional property owner or 2 community residents will install rain gardens or other sustainable landscapes.	<p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Commercial/institutional properties; Homeowners	2	2022
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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, Propagation, Pledges and Giveaways	CSWCD	Conduct at least one tree planting event	<p>Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Residents, businesses, community organizations, churches, synagogues and other religious institutions. Especially those in riparian areas.	10	2022
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Summary of Planned Activities: Conduct at least one tree planting event, with at least 10 participants.

Comments:

Green Yards & Healthy Homes Workshop	CSWCD	Conduct at least one workshop, reaching at least 10 residents	<p>Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Residents; Parent Organizations, Garden Clubs	10	2022
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Summary of Planned Activities: Conduct at least one workshop, reaching at least 10 residents.

Comments:

Storm Drain Stenciling & Storm Drain Art	CSWCD	Conduct at least one stenciling event in the community.	<p>Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.</p> <p>We all live in a watershed and our actions on the land directly affect the quality of our water.</p>	Students; Youth Clubs; Service Clubs	10	2022
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Summary of Planned Activities: Conduct at least one stenciling event in the community, reaching at least 10 residents.

Comments:

Stormwater Pledges	CSWCD	At least 10 citizens participate in a stormwater-related pledge to perform activities that benefit water quality.	Pledge themes include: Litter, Sensible Salting, Tree Planting and Maintenance, Pick up Dog Waste, Watershed Champion (sustainable landscaping).	Residents	10	2022
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Summary of Planned Activities: 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.

Small changes in lawn care, landscaping and soil health management practices can lead to local water quality improvements. Converting lawn areas to native trees, shrubs, rain gardens, wildflowers or prairie grasses improves soil health, increases rain water infiltration and reduces pollution from lawn runoff. Rain Barrels improve water quality by reducing stormwater runoff and therefore the delivery of pollutants to the storm sewer system.

Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.

Trees intercept and infiltrate rainwater before it can be converted to runoff. Properly planting and maintaining native trees reduces runoff and improves water quality.

We all live in a watershed and our actions on the land directly affect the quality of our water.

Comments:

Citizen Participation in Watershed Planning & Management	CSWCD	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, or serve on the board of a community-based watershed organization.	We all live in a watershed and our actions on the land directly affect the quality of our water.	Residents	5	2022
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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:

2022 Watershed Awareness Series	DBWP	Educated at least 0.5% of watershed residents on urban stormwater runoff and how it impacts local watersheds.	<p>We all live in a watershed and our actions on the land directly affect the quality of our water. Native plants and trees filter non-point source pollutants, decrease soil.</p> <p>Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity.</p> <p>Habitats other than lawn are preferable for healthy water quality.</p> <p>Every storm drain and small tributary flows to Lake Erie via Doan Brook and other local streams.</p> <p>Native plants and trees filter non-point source pollutants, decrease soil erosion, assist soil microbial life and promote biodiversity.</p> <p>Habitats other than lawn are preferable for healthy water quality.</p> <p>Every storm drain and small tributary flows to Lake Erie via Doan Brook and other local streams.</p>	Watershed residents	1	April 9 & April 16 (Doan Brook Stream Sweep); April 23 (Dugway Brook Stream Sweep)
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Summary of Planned Activities: Annual Stream Sweeps & Weed Pulls - Participants will help clean up winter's accumulation of plastic bags, bottles, cans and other trash in the Doan Brook's watershed corridor as it winds through Rockefeller Park and the Cultural Gardens on its way to Lake Erie and in the Dugway Brook watershed in Forest Hill Park.

DIY Rain Barrel Workshops - Participants will make their own rain barrel. The barrel, parts and tools will be supplied and construction methods will be taught.

Educational Hikes - Participants will hike in local watersheds learning about hydrology, history, geology and how surrounding urban landscapes impact water quality.

Storm Drain Stenciling Saturdays - Participants will learn how nutrients create algal blooms in our local waterways, how they cause dead-zones, and how they can be prevented.

Comments:

Stream Cleanup	CSWCD	At least on stream cleanup per year, with at least 10 participants.	Waste materials that are improperly managed or disposed of negatively impact water quality and aquatic ecosystems.  We all live in a watershed and our actions on the land directly affect the quality of our water.	General public and users of the river/watershed resources/fishing clubs/ canoeists/kayakers, hikers, scouts and birders.	10	2022
Summary of Planned Activities: At least one stream cleanup per year; with at least 10 participants.						
Comments:						
City of Cleveland Student-led Rain Barrel Workshops	City of Cleveland Office of Sustainability & Division of Water, Youth Opportunities Unlimited (YOU), Northeast Ohio Regional Sewer District (NEORS), local Community Development Corporations (CDCs), Cleveland Public Library branches	10-12 student-led rain barrel workshops held during the 2022 annual Summer Rain Barrel Program.  400 residents reached via the workshops.  300 rain barrels distributed.  200 residents reached via education/outreach programming.	Protect and conserve local water resources by reducing stormwater runoff at its source, reducing the impact of pollutants on local waterways, reducing residential flooding, as well as promoting water conservation practices.	Homeowners/residents, City of Cleveland employees, community leaders and students employed through Mayor Bibb's Summer Youth Employment Program.	400	June - August 2022
Summary of Planned Activities: 10-12 student-led workshops hosted in 2022 at various City of Cleveland facilities, including Cleveland Public Library branches, Recreation Centers, community development corporations, and other community-based locations.						
Goal of reaching a minimum of 400 residents through workshops.						
Goal of distributing 300-325 rain barrels to residents.						
200 residents reached via education/outreach programming.						
Comments:						
City of Cleveland Summer Rain Garden Program	City of Cleveland Office of Sustainability & Division of Water, Youth Opportunities Unlimited (YOU), Northeast Ohio Regional Sewer District (NEORS), local Community Development Corporations (CDCs), Cleveland Public Library branches.	Number of students educated on rain gardens as a stormwater reduction Best Management Practice. 2022 Goal: 20 students	Protect and conserve local water resources by reducing stormwater runoff at its source, reducing the impact of pollutants on local waterways, reducing residential flooding, as well as promoting water conservation practices.	Students employed by YOU	20	TBD

Summary of Planned Activities: 2022: Summer Program:

- ¿ Maintain several rain gardens throughout the City, including Kerruish Park, Willard Park, and Michael Zone Recreation Center.
- ¿ Plant one native tree or large shrub at each of the three gardens noted above.
- ¿ Educate student workers about the benefits and functionality of rain gardens and bioretention.
- ¿ Educate student workers about the benefits of planting native species.
- ¿ 20 students educated on rain garden function and maintenance, and the benefits of planting native species.

Comments:

City of Cleveland Student-led Rain Barrel Workshop	City of Cleveland Office of Sustainability & Division of Water, Youth Opportunities Unlimited (YOU), Northeast Ohio Regional Sewer District (NEORS), local Community Development Corporations (CDCs), Cleveland Public Library branches.	10-12 student-led rain barrel workshops held during the 2022 annual Summer Rain Barrel Program.  400 residents reached via the workshops.  300 rain barrels distributed.  200 residents reached via education/outreach programming.	Protect and conserve local water resources by reducing stormwater runoff at its source, reducing the impact of pollutants on local waterways, reducing residential flooding, as well as promoting water conservation practices.	Homeowners/residents, City of Cleveland employees, community leaders and students employed through Mayor Bibb's Summer Youth Employment Program.	350	TBD
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Summary of Planned Activities: 10-12 student-led workshops hosted in 2022 at various City of Cleveland facilities, including Cleveland Public Library branches, Recreation Centers, community development corporations, and other community-based locations.

Goal of reaching a minimum of 400 residents through workshops.

Goal of distributing 300-325 rain barrels to residents.

200 residents reached via education/outreach programming.

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	Division of Water Pollution Control	Comply with local ordinance CCO Section 541	Yes	Codified Ordinance 541 <a href="http://caselaw.lp.findlaw.com/clevelandcodes/cco_part5_541.html">http://caselaw.lp.findlaw.com/clevelandcodes/cco_part5_541.html</a>	Yes

Summary of Results or Activities: Prohibits illicit discharges to stormwater infrastructure or to the environment and implements enforcement procedures as necessary.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
Storm Sewer System Map	Division of Water Pollution Control	Updated at least once every quarter	Yes	MS4 map updated	Yes

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
HSTS Mapping and List	Division of Water Pollution Control	Maps currently available	Yes	There are nine known septic tanks in the City of Cleveland of which one is located in a MS4.	Yes

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Activities or Updates	Effective
IDDE Plan	Division of Water Pollution Control	Investigate illicit discharges within 2 weeks of notification.	Yes	18 illicit discharge cases were investigated in 2021. Call cases with the exception of 5 were either resolved by Water Pollution Control or referred to the City of Cleveland, Department of Building & Housing.	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	Cuyahoga County Board of Health	Inspect all outfalls at least once during the permit period	No	34	22	8	0	12	Yes

Comments: Several of the illicit connections that were eliminated in 2021 were identified in previous years.

Upload File Name for the Illicit Discharges: Schedule of IDDE Elimination.pdf

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Summary of Planned Activities	Comments	Effective
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No records found

## 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
Locate priority areas	Water Pollution Control	Begin first priority IDDE investigations within 2 business days of being notified	If the source of an illicit discharge is not easily identified, further investigation is necessary, with first priority given to illicit discharges suspected of being sanitary sewage.	Throughout 2022

Comments:

Storm Sewer System Map	Water Pollution Control	Update sewer map at least once per quarter	The MS4 map will be updated each quarter	Q1-Q4
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Comments:

HSTS Mapping and List	Water Pollution Control	Verify each HSTS by end of permit term	Verify the existence and operability of all HSTS's in the City of Cleveland	Complete by end of permit term.
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Comments:



IDDE Plan	Water Pollution Control	Assess IDDE at least once per year over the course of the permit.	Update/revise IDDE Plan as needed	Annual evaluation
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Comments:

Dry-Weather Screening of Outfalls	Cuyahoga County Board of Health	Inspect each previously identified MS4 outfalls at least once per permit term	Inspect each previously identified MS4 outfalls during dry weather flow and sample and sample all outfalls within Northeast Ohio Regional Sewer Districts regional service area.	Annually
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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	City of Cleveland Department of Building & Housing (B & H)	Comply with local ordinance CCO Section 3116 (City Record, 7/15/09, p. 1391)	Yes	CCO Sec. 3116 (City Record, 7/15/09, p. 1391.)	Yes

Summary of Results or Activities: City continues to use the existing ordinance.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Standards Being Used	Effective
Sediment and Erosion Control Requirements	City of Cleveland - Department of Building & Housing	Comply with OHC000005 permit requirements on all MS4 and CSO properties with > 1 acre of earth disturbance	Yes	OEPA Standards	Yes

Summary of Results or Activities: City continues to use the existing ordinance. (Effective since 7/8/2009)

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Number of Complaints Received	Number of Complaints Followed Up On	Effective
Complaint Process	City of Cleveland - Department of Building & Housing	Comply with local ordinance CCO Section 3116 (City Record, 7/15/09, p. 1391)	Yes	0	0	Yes

Summary of Results or Activities: No known complaints received related to erosion and sediment control implementation.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Sites Requiring Plans	# of Plans Reviewed	Effective
Site Plan Review Procedures	B & H	Review all site plans with an > 1 Acre earth disturbed area for compliance with CCO Ch. 3116 & OHC000005	Yes	41	88	Yes

Summary of Results or Activities: Continued contract with Cuyahoga SWCD to perform SWP3 reviews on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites	# of Sites Inspected	Average Frequency	Effective
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Site Inspection Procedures	B & H	Monthly inspections to ensure compliance with SWP3 on all sites > 1 acre earth disturbance in accordance with CCO Ch. 3116 & OHC000005	Yes	139	776	5.5	Yes
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Summary of Results or Activities: Continued contract with Cuyahoga SWCD to perform inspections on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City.

Comments:

Upload File Name(s) for Applicable Sites: 2021 SWP3 Inspections.pdf

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Violation Letters	# of Enforcement Actions	Effective
Enforcement Procedures	B & H	Ensure sites not in compliance with CCO Ch. 3116 & OHC000005 are brought up to code within specified timeline.	Yes	44	1	Yes

Summary of Results or Activities: Violation letters sent to permittee and follow-up inspections conducted. Sites in violation were brought up to code without having to resort to Housing Court

Comments: Broadway Storage (3GC10749\*AG)

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
Complaint Process	B & H	TBD	Continue to utilize the Building & Housing Departments complaint intake procedures.	Through 2022

Comments:

Sediment and Erosion Control Requirments	B & H	Continue to comply with local ordinance CCO Section 3116 (City Record, 7/15/09, p. 1391)	City will continue to use the existing ordinance.	Through 2022
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Comments:

Site Plan Review Procedures	B & H	Continue to review all site plans for public and private sites within MS4 and CSO areas that disturb more than one acre in the City.	Continue to contract with Cuyahoga SWCD to perform SWP3 reviews on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City.	Through 2022
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Comments:

Site Inspection Procedures	B & H	Continue to conduct monthly site inspections for public and private sites within MS4 and CSO areas that disturb more than one acre in the City.	Continue to contract with Cuyahoga SWCD to perform SWP3 inspections on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City. Increase the frequency of inspection to once every 14 days if the construction site is located in a MS4 area that discharges to a watershed with a US EPA approved TMDL and Total Suspended Solids (TSS) and nutrients are noted as pollutants of concern.	Through 2022
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Comments:

Enforcement Procedures	B & H	Continue to comply with local ordinance CCO Section 3116 (City Record, 7/15/09, p. 1391)	City will continue to use the existing ordinance.	Through 2022
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Comments:

Ordinance of Other Regulatory Mechanism	City of Cleveland - Department of Building & Housing	Continue to comply with local ordinance CCO Section 3116 (City Record, 7/15/09, p. 1391).	Modify existing ordinance to better align it with new NPDES/MS4 general permit requirements.	Through 2022
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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	City of Cleveland - Department of Building & Housing (B & H)	Comply with local ordinance CCO Section 3116 (City Record, 7/15/09, p. 1391)	Yes	CCO Sec. 3116 (City Record, 7/15/09, p. 1391.); Ordinance No. 155-13	Yes

Summary of Results or Activities: City continues to use the existing ordinance for post-construction.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	Structural and/or Non-Structural Standards Being Used	Effective
Post-Construction Requirements	B & H	Comply with OHC000005 permit requirements on all MS4 and CSO properties that disturb more than 1 acre in the City.	Yes	OEPA Standards	Yes

Summary of Results or Activities: City continues to use the existing ordinance for post-construction. (Effective since 7/8/2009)

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites Requiring Plans	# of Plans Reviewed	Effective
Site Plan Review Procedures	B & H	Review all site plans with Post Construction Requirements for MS4 and CSO areas that disturb more than one acre in the City.	Yes	0	0	Yes

Summary of Results or Activities: Continued contract with Cuyahoga SWCD to perform SWPPP reviews on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Applicable Sites	# of Inspections Performed	Average Frequency	Effective
Site Inspection Procedures	B & H	Inspect all sites after final stabilization for compliance with post construction requirements for the City.	Yes	203	203	1	Yes

Summary of Results or Activities: Continued contract with Cuyahoga SWCD to perform inspections of all post-construction stormwater control measures on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City.

Comments:

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Violation Letters	# of Enforcement Actions	Effective
Enforcement Procedures	B & H	Track follow-up assistance and resulting maintenance to achieve compliance.	Yes	44	1	Yes

Summary of Results or Activities: The City continued its contract with Cuyahoga SWCD to inspect stormwater control measures and provide follow-up assistance to landowners to achieve maintenance. Letters describing needed maintenance were sent to all landowners. Additionally, letters were sent to facility owners indicating that maintenance is unsatisfactory.

Comments: Based on previous year metrics; facilities labeled as unsatisfactory demonstrated maintenance compliance

BMP (mechanism)	Responsible Party	Measurable Goal	Completed	# of Sites Requiring Plans/Agreements	# of Plans Developed/Agreements in Place	Effective
Long-Term O&M Plans/Agreements	B & H	Require long-term operation and maintenance plans to be submitted along with the SWPPP for MS4 and CSO areas that disturb more than one acre in the City.	Yes	25	25	Yes

Summary of Results or Activities: While LTOM plans are required for all sites with post-construction stormwater controls, there is no formal maintenance agreement. The agreement is implied by the post-construction CCO Sec. 3116.10.

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	B & H	Continue to comply with local ordinance CCO Section 3116 (City Record, 7/15/09, p. 1391)	City will continue to use the existing ordinance for post-construction. Update ordinances and changes; get administrative approval; start legislative process.	Through 2021

Comments:

Site Inspection Procedures	B & H	Continue to inspect all sites after final stabilization for compliance with post construction requirements for the City.	Continue to contract with Cuyahoga SWCD to perform inspections of all post-construction stormwater control measures on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City.	Through 2021
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Comments:

Long-Term O & M Plans/Agreements	B & H	Amend CCO Sec 3116 to expressly require O&M Agreements.	Provide maintenance agreement to be signed with submittal of LTOM Plan/Manual.	By Q4: 2021
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Comments:

Enforcement Procedures	B & H	Continue to track follow-up assistance and resulting maintenance to achieve compliance. Issue cover letters with needed maintenance details and timelines on City letterhead.	Provide follow-up assistance and 2nd inspection to sites that are not functioning properly.	Through 2021
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Comments:

Post-Construction Requirements	B & H	Continue to comply with OHC000005 permit requirements on all MS4 and CSO properties that disturb more than 1 acre in the City.	Continue to use the existing ordinance for post-construction that references OEPA Permit OHC000003. (Effective since 7/8/2009)	Through 2021
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Comments:

Site Plan Review Procedures	B & H	Continue to review all site plans with Post Construction Requirements for MS4 and CSO areas that disturb more than one acre in the City.	Continue to contract with Cuyahoga SWCD to perform SWPPP reviews on all public and private building construction sites for MS4 and CSO areas that disturb more than one acre in the City.	Through 2021
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Comments:

**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	City of Cleveland - Department of Public Works (PW)	Conduct at least one training session per year to combined audience of municipal personnel who work at facilities in MS4 areas.	Yes	Best Management Practices (BMPs), SWP3s, and Good housekeeping/spill prevention.	PW staff	68	Yes

Summary of Activity: December 7, 2021 - Training course. Topics discussed: stormwater/NPDES permit/illicit discharges; effects of stormwater pollution, illicit discharge detection & elimination (IDDE) for municipal employees; potential pollution sources in municipal operations/best management practices.

Comments:

BMP (mechanism)	List of Municipal Facilities Subject to Program	O&M Procedures Developed?	# of Inspections Performed	Frequency of Inspections
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Municipal Facilities	See attached list	Yes	1	Quarterly
BMP (mechanism)	Summarize Maintenance Activities and Schedules		Summarize Activities Performed	
MS4 Maintenance	Implement SWP3 program to reduce and/or prevent pollutant runoff from municipal operations at city facilities in MS4 areas with specified operations.	The Department of public works conducted annual trainings regarding the use of road salt, pesticides/herbicides, fertilizer, and waste management		
BMP (mechanism)	Procedures Developed?	Document Amounts of Wastes Properly Disposed		
Disposal of Wastes	Yes	Invoices of disposed MSW available upon request. Environmental health inspections quarterly. Annual EPA inspections.		
BMP (mechanism)	Covered?	Tons Used	Summarize Measures Taken to Minimize Usage	
Road Salt	Yes	30000 Tons	Sensible salting measures were enacted during snow and ice events.	
BMP (mechanism)	Procedures Developed?	Gallons Used	Summarize Measures Taken to Minimize Usage	
Pesticide & Herbicide Usage	No	0 Gallons	N/A	
BMP (mechanism)	Procedures Developed?	Pounds Used	Summarize Measures Taken to Minimize Usage	
Fertilizer Usage	Yes	0 Pounds	None used	
BMP (mechanism)	Procedures Developed?	Document Amount of Material Collected and Properly Disposed		
Street Sweeping	Yes	3,000 tons		
BMP (mechanism)	Summarize Any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality			
Flood Management Projects	N/A			
BMP (mechanism)	Summary			
Catch Basin Cleaning	The City cleaned 11,734 catch basins in 2021.			

## 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
Road Salt	Division of Streets	Reduce the amount of road salt used by 5%.	Maintain and repair all salt domes. Implement smart salting practices during snow and ice events	Through Q4 2022
Comments:				
Street Sweeping	Division of Streets	All city streets swept a minimum of 3 times/year.	Perform street sweeping activities on a weekly basis.	Residential street sweeping program: April - December
Comments:				
Employee Training Program	City of Cleveland - Department of Public Works	Conduct at least one good housekeeping training for municipally owned/operated facilities located in MS4 areas.	Provide detailed training course on stormwater best management practices and pollution prevention/good housekeeping	At least one training session in 2022

Comments:				
PPGH/Operations & Maintenance Plan	Water Pollution Control & Public Works	Reduce the number of deficiencies during quarterly inspections by 5-10% annually.	Develop a comprehensive PPGH/Operations & Maintenance Plan that will define the focus of pollution prevention/good housekeeping efforts and systematically improve existing municipal operations.	Complete PPGH/O&M Plan by end of Q3 2022

Comments:

**PROPOSED CHANGES TO YOUR SWMP (IF ANY)**

*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.*

The SWMP has been revised to reflect changes in the new general permit (copy attached).

**VARIANCES GRANTED (IF ANY)**

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

**ADDITIONAL INFORMATION**

*Please add any additional comments or attachments below.*

Additional Information attachment(s): [2021 SWP3 Inspections.pdf](#), [Table 2 - City Facilities in MS4 - Stormwater Pollution Prevention Plan \(SWP3s\) 2018.pdf](#), [2021 Notice of Deficiencies.pdf](#), [2021 SWMP - Final.pdf](#), [2021 SWP3 Reviews.pdf](#), [2021 Post Construction Inspections.pdf](#), [2021 Pollution Prevention & Good Housekeeping Training - Sign In Sheet.pdf](#)